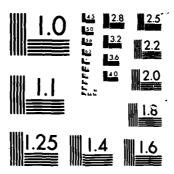
IRIG STANDARDS FOR RANGE METEOROLOGICAL DATA REDUCTION PART 2 ROCKETSONDE(U) RANGE COMMANDERS COUNCIL MHITE SANDS MISSILE RANGE NM INTER-R. DEC 85 IRIG-STANDARD-352-85-81-12 F/G 4/1 AD-A163 634 1/5 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



MG

IRIG STANDARD 352-85 (FORMERLY 108-72)

IRIG STANDARDS FOR RANGE METEOROLOGICAL DATA REDUCTION PART II - ROCKETSONDE

D-A163 634



METEOROLOGY GROUP RANGE COMMANDERS COUNCIL

WHITE SANDS MISSILE RANGE KWAJALEIN MISSILE RANGE YUMA PROVING GROUND

PACIFIC MISSILE TEST CENTER
NAVAL WEAPONS CENTER
ATLANTIC FLEET WEAPONS TRAINING FACILITY
NAVAL AIR TEST CENTER

FILE COPY

EASTERN SPACE AND MISSILE CENTER
ARMAMENT DIVISION
WESTERN SPACE AND MISSILE CENTER
AIR FORCE SATELLITE CONTROL FACILITY
AIR FORCE FLIGHT TEST CENTER
AIR FORCE TACTICAL FIGHTER WEAPONS CENTER

THE STATE

DISTRIBUTION STATEMENT A: APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED.

DISCLAIMER NOTICE

THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

IRIG STANDARD 352-85

IRIG STANDARDS FOR RANGE METEOROLOGICAL DATA REDUCTION

PART II - ROCKETSONDE

Prepared by

Standardization of Range Meteorological
Data Reduction Committee
Meteorology Group
Range Commanders Council

December 1985

Published by

Secretariat
Range Commanders Council
White Sands Missile Range
New Mexico 88002-5002

Accesion For		3
CRA&I TAB	7	
Unannounced Justification		
Ву		
Distabution /		
Availability Codes		
23		
	CRA&I TAB ounced cation ution / vailability Avail and Specia	CRA&I TAB Ounced Dation Dation/ Evailability Codes Avail and/or Special



TABLE OF CONTENTS

		PAGE
FOREWORE	o	v
SECTION	A - CDC FORTRAN V ROCKETSONDE PROGRAM (ROCK 3)	A-1
ABS	TRACT	A-3
1.0	Module Description	A-4
2.0	Mathematical Description	A-6
3.0	Input	A-19
4.0	Output	A-21
5.0	Algorithms	A-24
6.0	Flowcharts	A-25
7.0	Mathematical and Physical Constants	A-58
8.0	Bibliography	A-60
ATTA	ACHMENTS	
	DAEMC Code Tobles	
1	RAEMG Code Tables	A-61 A-65
2	Sample Copy Temperature Data With Resistance Values Sample Copy Temperature Data With Coded Temperature	A~0⊃
	Values	A-69
4	Sample Copy of GMD-4 TAER Data (Roke Output)	A-73
5	Sample Copy of Matty Deck	A-77
6	Sample Copy of 46-Character Data	A-81
7	Sample Copy of Printer Output	A-85
3	Breakdown of 46-Character Data	A-101
9	Description of Temperature Correction Technique	A-105
10	Sample Copy of ROCOB Data	A-115
11	Breakdown of ROCOB Code	A-119
12	Table of the Logs of Mandatory Pressure Levels	A-125
13	Sample Copy of High-Altitude Meteorological Data	A-129
14	Sample Copy of Card Output	A-135
15	Sample Copy of Co-Rawinsonde 250-Meter Input	A-143
15	Program Listing	A-149
SECTION	B - METEOROLOGICAL SOUNDING SYSTEM (MSS) DATA	
	GENERAL NOVA-3/12 FORTRAN V ROCKETSONDE	
	PROGRAM (ROCS 3)	B-1
ABST	TRACT	B - 3
		5.5
PASS	5 1	B - 5
1.0	Module Description	B-6
2.0	Mathematical Description	B-7
3.0	Input	B-18
4.0	Output	B-22
5.0	Algorithms	B-25
6.0	Flowcharts	B-26
7.0	Mathematical and Physical Constants	B-52 B-55
8.0	Bibliography	ככ-ם

		PAGE
ATTA	CHMENTS	
1	Input Data File, Dump and Binary	B-57
2	Input Co-Rawinsonde File (Control and Tab)	B-73
3	Output Tabular File	B-79
4	Output Disk File	B-99
5	Intermediate Scratch File, Dump and Binary	B-109
6	Program Listing	B-119
PASS	2	B-153
1.0	Module Description	B-154
2,0	Mathematical Description	B-155
3.0	Input	B-160
4.3	Output	B-164
5.0	Algorithms	B-169
6.0	Flowcharts	B-170
7.0	Mathematical and Physical Constants	B-184
ATTA	CHMENTS	
1	Intermediate Scratch File (From PASS 1)	B-187
2	Output Disk File (From PASS 1)	B-197
3	Co-Rawinsonde File (Significant and Mandatory)	B-207
4	HAMDATA Output File	B-211
5	ROCOB Output File	B-217
6	Program listing	R_221

FOREWORD

The measurement of atmospheric parameters to support activities on National Ranges involves the entire meteorological environment from the most simple observation of data near the surface to the complex and difficult measurements of high altitude parameters by the use of rocket and satellite-borne instrumentation. The needs for accurate assessment of the meteorological environment in which missile and space system operations are conducted do not vary significantly from one range to another, though the frequency and quantity of observations may be considerably different. In recent years, many test programs involved the use of more than one range and required similar types of meteorological measurements from each range participating.

Measurements of the atmospheric environment are, in most cases, made by use of the same type of instruments on several ranges. To ensure the highest quality processed data, the Meteorology Group (MG) of the Range Commanders Council (RCC) is assigned the task of standardizing the methods used in the reduction of range meteorological data. A committee composed of the following members was formed to pursue a task titled "Standardization of Range Meteorological Data metallion":

ir. H. C. Harring ESMC, Chairman Mr. F. J. Schmidlin NASA/WFC Mr. J. Dunaway WSMR Mr. E. J. Keppel A D Mr. J. J. Boire WSMC Mr. J. A. Lea PMTC 4. E. E. Fisher AFSC Aug H. S. Noonan AFFTC Mr. R. W. Event NWC Titus NTS/DOE ... M. E. Raffensburger UTTR Mr. E. Gibeau KMR

The original issue of Part I of this document was published as 1.1. Document 108-67 in August 1967. Both Parts I and II of the resent were later published as IRIG Document 108-72. The current resonance of the document is comprised of computer program documentation for two different computer systems. The program in section A is used by a large central computer to process data from either nontransponder or transponder rocketsondes. The program in section B is for the minicomputer (NOVA-3/12) of the Meteorological Sounding System (MSS) and is used for processing data from the transponder rocketsondes.

The U.S. standard computer program for the processing of Robin Falling Sphere data to calculate winds, temperatures, pressures and densities is the 19/7 UDRI Robin Program. Other programs should be considered experimental and not used in lieu of the U.S. standard at the present time. In the future, providing adequate comparison experiments are conducted on some of the newly developed falling sphere programs which may show improvements over the U.S. standard,

the RCC MG committee on Standardization of Range Meteorological Data Reduction may recommend a new U.S. standard or approve other programs for use in addition to this standard for certain special applications.

Range meteorological agencies are encouraged to conform to the standard data reduction techniques and to use the formulae contained in this document in an effort to achieve the highest possible degree of standardization of meteorological data at all ranges. In addition, the committee encourages other agencies involved in machine processing of meteorological data to conform to these standardized procedures to the maximum extent possible. The committee and the MG invite and solicit comments and recommendations for improvements in the data reduction techniques and associated information contained in this document. Please forward such inputs to the Secretariat, Range Commanders Council, ATTN: STEWS-SA-R, White Sands Missile Range, New Mexico 38002-5002.

SECTION A

CDC FORTRAN V

ROCKETSONDE PROGRAM

(ROCK 3)

ABSTRACT

The Rocket Reduction Program is designed to process data acquired by standard Loki and Super Loki rocketsondes. This program accepts input data taken from the AN/TMQ-5 record and the strip chart from the MSS Tracking System, a radar and/or AN/GMD-4 Rawin Set, plus corawinsonde baseline data. The program processes input data and outputs as its final product rocket-sonde data in readily usable tabular format; card decks, if desired; and rocketsonde message code (ROCOB).

1.0 MODULE DESCRIPTION

1.1 Program ROCK

Initializes data control arrays and controls flow of data through the subroutines.

1.2 Subroutine SIMQ

A least squares method of smoothing, provides a best fit of the components by generating a second-degree polynomial equation.

1.3 Subroutine OUTPUT

Formats the data for output.

1.4 Function WDIR

Computes wind direction in polar meteorological coordinates and windspeed in meters/second.

1.5 Function VALUE

Sets missing data to nines or interpolates for value.

1.6 Subroutine GRAVITY

Computes the ratio of the station's acceleration of gravity to gravity at 45 degrees latitude using the expression given at the top of Table 168, SMT, List 1968 (Bibliography Number 1).

1.7 Subroutine CHKOUT

Prints the tracking data in quality control format. Converts tracking data to Cartesian coordinates and writes data to a file.

1.8 Subroutine RD46CH

Reads the radar data and converts time to units and format consistent with TAER format.

1.9 Subroutine TMPMERG

Identifies type of temperature data, computes temperature from ordinate ratios, and combines temperature with tracking data versus time.

1.10 Subroutine INTPTMP

Identifies missing temperatures and interpolates to obtain temperatures through layers of less than 3.0 km thickness.

1.11 Subroutine MIDINT

Computes the midpoint of altitude layers and calculates uncorrected component winds and fall rates for the layers between data points. Component winds and fall velocities are assigned to the midpoint of the layers.

1.12 Subroutine BANDTC

Computes ballistic motion corrections for correcting winds according to Eddy (reference 3 in bibliography). Temperature corrections are computed for correcting temperatures as described in attachment 9 (reference 4 in bibliography).

1.13 Subroutine COMPRSR

Computes and tabulates the difference in temperatures from the co-rawinsonde observation and the rocketsonde observation in the overlap region. Chooses a baseline for barometric pressure computations.

1.14 Subroutine TWOKM

Smooths component wind layer data over 2-km thicknesses producing 2 km-mean layer winds.

1.15 Subroutine PRESCOM

Converts geometric altitude to geopotential units, computes mean virtual temperature, and computes the atmospheric pressure using a standard form of the hypsometric equation.

1.16 Subroutine ONEKILO

Rearranges data in a 1-km array and computes maximum altitude recorded by sounding.

1.17 Subroutine PLOTCH

Plots temperature versus altitude as an aid to quality control.

1.18 Subroutine PUTOUT

Outputs data to the printer file and the disk file.

1.19 Subroutine ETFORM

Formats data for entry into high altitude data formatting routine to develop data for archiving and publication.

1.20 Subroutine CODIT

Corrects units of temperature and converts other data.

1.21 Subroutine RDRAWIN

Reads co-rawinsonde data for input to the archiving and publication formatting program.

1.22 Subroutine INT

Interpolates for missing data in the input data.

1.23 Subroutine ROCOB

Encodes all rocketsonde parameters into the international ROCOB code and stores data for later transmission.

1.24 Subroutine MANDL

Mandatory data level called by ROCOB to place data level into proper place in the code.

2.0 MATHEMATICAL DESCRIPTION

2.1 Program ROCK

None

2.2 Subroutine SIMQ

None

2.3 Subroutine OUTPUT

2.3.1 Computation of the Density of Each Level

$$\rho = 348.38 \cdot (P/T)$$

where $\varrho = \text{density (grams/cubic meter)}$

P = pressure of the level (millibars)

T = temperature of the level (degrees K)

2.3.2 Computation of the Velocity of Sound (Dry)

$$V_s = 331.45 \cdot (T/273.15)^{1/2}$$

where $V_s = \text{velocity of sound (meters/second)}$

T = temperature (degrees K)

2.3.3 Computation of Vertical Wind Shear

$$WS = [(VX - VXP)^2 + (VY - VYP)^2]^{1/2}/\Delta ALT$$

where WS = vertical wind shear

VX = corrected east-west velocity component

VY = corrected north-south velocity component

VXP = corrected previous east-west velocity component

VYP = corrected previous north-south velocity component

 ΔALT = thickness of the shear layer

2.4 Function WDIR

2.4.1 Computation of Wind Direction

$$DC = tan^{-1} (VY/VX)$$

If VX is positive,

$$D = 90 - DC$$

If VY is negative

$$D = 270 - DC$$

where D = wind direction, meteorological polar coordinates

DC = wind direction, Cartesian coordinates

VX = corrected east-west velocity component

VY = corrected north-south velocity component

2.4.2 Computation of Windspeed

$$C = (VX^2 + VY^2)^{1/2}$$

where C = winds

C = windspeed (meters/second)

VX = corrected east-west velocity component

VY = corrected north-south velocity component

2.5 Function VALUE

None

2.6 Subroutine GRAVITY

2.6.1 Computation of the Ratio of Local Gravity to Gravity at 45 Degrees Latitude

GRAT =
$$1 - 0.0026373 \cdot \cos(2 \cdot \phi_{L}) + 0.0000059 \cdot \cos^{2}(2 \cdot \phi_{L})$$

where GRAT = ratio of local gravity to gravity at 45 degrees latitude

 ϕ_I = station latitude (degrees)

2.7 Subroutine CHKOUT

2.7.1 Computation of Differences for Time, Azimuth, Elevation, Range, and Height Between Adjacent Levels

$$\Delta G = 60/(GA - GB)$$

$$\Delta Z = (ZA - ZB) \cdot \Delta G$$

$$\Delta \phi = (\phi A - \phi B) \cdot \Delta G$$

$$\Delta\theta = (\theta A - \theta B) \cdot \Delta G$$

$$\Delta R = (RA - RB) \cdot \Delta G$$

where ΔG = difference in time in fractional parts of minutes

 ΔZ = difference in geometric altitudes

 $\Delta \phi =$ difference in elevation angles

 $\Delta\theta$ = difference in azimuth angles

 ΔR = difference in range

GA = time of upper level (seconds)

GB = time of lower level (seconds)

ZA = altitude of upper level (meters)

ZB = altitude of lower level (meters)

 ϕA = elevation angle of upper level (degrees)

 ϕB = elevation angle of lower level (degrees)

 θA = azimuth angle of upper level (degrees)

 $\theta B = azimuth angle of lower level (degrees)$

RA = range of upper level (meters)

RB = range of lower level (meters)

2.7.2 Computation of Geometric Height

$$Z = [(RE + H_T)^2 + R^2 + 2 \cdot (RE + H_T) \cdot \sin \phi]^{1/2} - RE$$

where Z = geometric height (meters)

RE = radius of the Earth (meters)

 H_T = station height (meters) (see paragraph 7.4)

 ϕ = elevation angle of the target (degrees)

R = slant range to target (meters)

2.7.3 Correction of Elevation Angle for Curvature of the Earth

$$\phi_c = \phi + \{ [Z \cdot \cos \phi / \sin \phi] / 2.2 \cdot RE \}$$

where ϕ_C = corrected elevation angle (radians)

♦ = elevation angle (radians)

Z = geometric height (meters)

RE = radius of the Earth (meters)

2.7.4 Computation of the East-West and North-South Position Components for Each Data Point

 $X = R \cdot \cos \phi_{c} \cdot \sin \theta$

 $Y = R \cdot \cos \phi_c \cdot \cos \theta$

where X = c -west position component

Y = north-south position component

R = slant range to target (meters)

 ϕ_C = corrected elevation angle (degrees)

 θ = azimuth angle of the target (degrees)

2.8 Subroutine RD46CH

2.8.1 Computation of the Azimuth, Elevation, and Slant Range Factors

 $\theta_{A} = 0.125 \cdot \theta + IRZ$

 $\phi_{\rm E} = 0.125 \cdot \phi + IRZ$

 $R^2 = 8.0 \cdot R + IRZ$

where $\theta_A = azimuth factor$

 ϕ_E = elevation factor

 R^2 = range factor

 θ = azimuth angle (degrees)

 ϕ = elevation angle (degrees)

R = range (meters)

IRZ = timing factor

2.8.2 Computation of Azimuth Angle, Elevation Angle, and Slant Range of the Data Point

$$\theta = 180 - \theta_A$$

$$\phi = 180 - \phi_E$$

$$R = 1.953125 \cdot R^2$$

where

- $\theta = azimuth angle (degrees)$
- elevation angle (degrees)
- R = slant range (meters)
- ϕ_E = elevation factor
- θ_A = azimuth factor
- R^2 = range factor

2.9 Subroutine TMPMERG

2.9.1 Computation of Temperature (Steinhart Equation)

$$T = 1/[A + (B \cdot LR) + (C \cdot LR^3)]$$

where

- T = temperature in degrees Kelvin
- LR = log of the thermister resistance value
- A = B = B calibration constants supplied by
- B = the instrument manufacturer

2.9.2 Computation of Temperature (Layton-Clark Equation)

$$T = B/(LR - A) - C$$

where

- T = temperature in degrees Kelvin
- LR = log of the thermister resistance value
- A = B = calibration constants supplied by the instrument manufacturer

2.10 Subroutine INTPTMP

2.10.1 Computation of Interpolation Ratio

$$K = (G_2 - G)/(G_2 - G_1)$$

where

- K = interpolation ratio
- G_2 = time of upper bounding level

 G_1 = time of lower bounding level

G = time of interpolated level

2.10.2 Interpolation for Missing Temperatures

$$T = T_2 - K \cdot (T_2 - T_1)$$

where T = interpolated temperature (degrees K)

 T_2 = temperature, upper bounding level (degrees K)

 T_1 = temperature, lower bounding level (degrees K)

K = interpolation ratio

2.11 Subroutine MIDINT

2.11.1 Computation of the Midinterval VX and VY

$$VX = (X - XA)/(GA - G)$$

$$VY = (Y - YA)/(GA - G)$$

where VX = midinterval east-west velocity component

VY = midinterval north-south velocity component

XA = upper bounding level east-west position component

X = lower bounding level east-west position component

YA = upper bounding level north-south position component

Y = lower bounding level north-south position component

GA = time after launch to upper bounding level (seconds)

G = time after launch to lower bounding level (seconds)

2.11.2 Computation of Fall Rate

$$VZ = (ZA - Z)/(GA - G)$$

where VZ = fall rate (km/seconds)

ZA = altitude, upper bounding level (km)

Z = altitude, lower bounding level (km)

GA = time after launch to upper bounding level (seconds)

G = time after launch to lower bounding level (seconds)

2.11.3 Computation of Mean Temperature, Mean Height, and Mean Time

$$TP = (T + TA)/2$$

$$H = (Z + ZA)/2$$

$$GG = (G + GA)/2$$

where

TP = mean temperature

TA = temperature, upper bounding level (degrees K)

T = temperature, lower bounding level (degrees K)

H = mean height

ZA = height, upper bounding level (km)

Z = height, lower bounding level (km)

GG = mean time (seconds)

GA = time, upper bounding level (seconds)

G = time, lower bounding level (seconds)

2.12 Subroutine BANDTC

2.12.1 Computation of a Delta Time

$$\Delta G = G_3 - G_1$$

where

 $\Delta G = delta time$

 G_3 = time of upper bounding level

 G_i = time of lower bounding level

2.12.2 Computation of Local Acceleration of Gravity

$$GL = GRAT \cdot 9.80616$$

where

GL = local acceleration of gravity

GRAT = ratio of local gravity to gravity at 45 degrees latitude

9.80616 = acceleration of gravity at 45 degrees latitude

2.12.3 Computation of Ballistic Motion Corrections (reference 2, Bibliography)

2.12.3.1 Correction of East-West and North-South Velocity Components

$$VX = VX_{2} - \frac{VX_{2} \cdot [(VX_{3} - VX_{1})/\Delta G]}{[(VZ_{3} - VZ_{1})/\Delta G] + GL}$$

$$VY = VY_2 - \frac{VY_2 \cdot [(VY_3 - VY_1)/\Delta G]}{[(VZ_3 - VZ_1)/\Delta G] + GL}$$

where VX = corrected east-west velocity component

VY = corrected north-south velocity component

 VX_1 = lower level east-west velocity component

VX₂ = intermediate level east-west velocity component

VX₃ = upper level east-west velocity component

VY₁ = lower level north-south velocity component

VY₂ = intermediate level north-south velocity component

VY₃ = upper level north-south velocity component

 VZ_1 = fall rate, lower level

 VZ_3 = fall rate, upper level

 ΔG = delta time

GL = local acceleration of gravity

2.12.3.2 Computation of Ventilation Velocity

$$V = [VZ_{2}^{2} + (VX - VX_{2})^{2} + (VY - VY_{2})^{2}]^{1/2}$$

where V = ventilation velocity

 VZ_2 = intermediate level vertical velocity

VX = corrected east-west velocity component

VX₂ = intermediate level east-west velocity component

VY = corrected north-south velocity component

VY₂ = intermediate level north-south velocity component

2.12.3.3 Computation of Aerodynamic Heating Correction

$$AA = K1_Z \cdot V^2$$

where AA = aerodynamic heating correction

 $K1_Z$ = aerodynamic heating term vs altitude (see attachment 8, table 1)

Z = index into K1 table (20-70 km)

V = ventilation velocity

2.12.3.4 Computation of Time Lag Correction

 $AB = K2_{Z} \cdot (T_3 - T_1)/\Delta G$

where AB = time lag correction

 $K2_Z$ = time lag term vs altitude (see attachment 8, table 1)

 T_3 = temperature of upper level (degrees K)

 T_i = temperature of lower level (degrees K)

 $\Delta G = delta time$

Z = index into the K2 table

2.12.3.5 Computation of Radiation Heat Loss Correction

 $AD = K3_Z \cdot T^4$

where AD = radiation heat loss correction

 $K3_Z$ = radiation heat loss term vs altitude (see attachment 8, table 1)

Z = index into the K3 table

T = temperature of the thermistor (degrees K)

2.12.3.6 Computation of Radiation and Electrical Correction

 $AC = K4_7$

 $AC = K5_{7}$ if at night

where AC = radiation and electrical correction

K47 = radiation and electrical loss term, day

 $K5_Z$ = radiation and electrical loss term, night

Z = index into the K4 and K5 tables

2.12.3.7 Computation of Corrected Temperature

TC = T - AA + AB - AC + AD

where TC = corrected temperature

T = temperature of the thermistor

AA = aerodynamic heating correction

AB = time lag correction

AC = radiation and electrical correction

AD = radiation heat loss correction

2.13 Subroutine COMPRSR

2.13.1 Computation of Interpolating Ratio

$$K = (ZA - Zb)/(ZA - ZB)$$

where K = interpolating ratio

ZA = upper level height

ZB = lower level height

Zb = baseline height

2.13.2 Computation of Baseline Temperature

$$Tb = TA - [K \cdot (TA - TB)] - 273.15$$

where Tb = baseline temperature (degrees C)

TA = upper level temperature (degrees K)

TB = lower level temperature (degrees K)

K = interpolation ratio

2.13.3 Computation of Temperature Difference

DIFF = Tb - TMP

where DIFF = temperature difference (degrees C)

Tb = baseline temperature (degrees C)

TMP = co-rawinsonde temperature for the level (degrees C)

2.14 Subroutine TWOKM

None

2.15 Subroutine PRESCOM

2.15.1 Computation of Geopotential Height

$$H = GRAT \cdot [(RE \cdot Z)/(RE + Z)]$$

where H = geopotential height

GRAT = gravitational ratio, local gravity to gravity at 45 degrees latitude

RE = radius of the Earth

Z = geometric height

2.15.2 Computation of Mean Virtual Temperature

 $\overline{TV} = (TV + TVP)/2$

where \overline{TV} = mean virtual temperature

TV = virtual temperature of the level

TVP = virtual temperature of the previous level

2.15.3 Computation of Log of Pressure

 $PL = PPL - (H - HP)/(PC \cdot \overline{TV})$

where PL = log of pressure of the level

PPL = log of the baseline pressure

PC = 67.442 = metric constant

 \overline{TV} = mean virtual temperature of the layer

H = geopotential height of the level

HP = geopotential height of the previous level

2.16 Subroutine ONEKILO

2.16.1 Computation of Next Output Level

 $Hs = [(IH/1000) \cdot 1000] + HINT$

where Hs = desired output level

IH = height converted to integer

HINT = output interval requested

2.16.2 Computation of Interpolation Ratio

K = (Hs - HB)/(HA - HB)

where K = interpolation ratio

Hs = output level

HA = height of upper bounding level

HB = height of lower bounding level

2.16.3 Interpolation of Position Components, Temperature, Uncorrected Temperature, Fall Rate, and Log of Pressure

$$X_S = K \cdot (XA - XB) + XB$$

where Xs = interpolated value

K = interpolation ratio

XA = upper level value

XB = lower level value

2.17 Subroutine PLOTCH

None

2.18 Subroutine PUTOUT

None

2.19 Subroutine ETFORM

2.19.1 Computation of Interpolation Ratio for Significant Data

$$K = (Hs - HB)/(HA - HB)$$

where K = interpolation ratio

Hs = output level

HA = height of upper bounding level

HB = height of lower bounding level

2.19.2 Computation of Interpolation Ratio for Mandatory Data

$$K = (PL - PB)/(PA - PB)$$

where K = interpolation ratio

PL = log of pressure at output level

PA = log of pressure, upper bounding level

PB = log of pressure, lower bounding level

2.19.3 Interpolation for Output Data

$$X_S = K \cdot (XA - XB) + XB$$

where $X_s = interpolated value$

K = interpolation ratio

XA = upper level value

XB = lower level value

2.20 Subroutine CODIT

2.20.1 Computation of Velocity of Sound

$$V_S = 331.45 \cdot (T/273.15)^{1/2}$$

where Vs = velocity of sound (meters/second)

T = temperature (degrees K)

2.20.2 Computation of Pressure

$$P = 10^{PL}$$

where P = barometric pressure (millibars)

PL = log of pressure

2.20.3 Computation of Density

$$\varrho = (P/T) \cdot 348.38$$

where $\varrho = \text{density (grams/cubic meter)}$

P = pressure (millibars)

T = temperature (degrees K)

2.21 Subroutine RDRAWIN

None

2.22 Subroutine INT

2.22.1 Interpolation for Output Data

$$K = (Hs - HB)/(HA - HB)$$

where K = interpolation ratio

Hs = output level

HA = height of upper bounding level

HB = height of lower bounding level

$$X_S = K \cdot (XA - XB) + XB$$

where

Xs = interpolated value

K = interpolation ratio

XA = upper level value

XB = lower level value

2.23 Subroutine ROCOB

None

2.24 Subroutine MANDL

None

3.0 INPUT

Input to the rocket program is divided into four groups: temperature data, tracking data, co-rawinsonde data, and control data from the terminal.

3.1 Tracking Data

The program reads two basic formats of input data: the 46-character radar data and the TAER format. The other input formats are converted by editor programs to the TAER format.

3.1.1 Radar Tracking Data, 46-character

The 46-character data is from the tracking radar and is put into a file in the following format (see attachment 6):

791121412480201425025546000013634434622462

See attachment 8 for a breakdown of this data.

3.1.2 TAER Format and MATTY File

The TAER format and MATTY file are identical except for the first line of the MATTY file (see attachment 5).

GGGGG.G AAA.AAA EE.EEE RRRRR.R

GGGGG.G = time of data (seconds after midnight)

AAA.AAA = azimuth angle (degrees from true north)

EF.EEE = elevation angle (degrees from horizontal)

RRRRR.R slant range (yards)

3.2 Temperature Data

Temperature data is in three types of record groups collected by one of two types of tracking systems. The tracking systems are the AN/GMD-4 and the MSS system. The three types of records follow.

3.2.1 Ordinate Ratios (Attachment 2)

Record	Contents
1	Test number (5 digits)
2	Station number (2 digits)
	Month (2 digits)
	Day (2 digits)
	Year (2 digits)
	Time of launch, GMT (4 digits)
	Type of instrument (3 digits)
	Plain language name of motor
	Туре
	RAEMG group (see attachment 1, tables 1 through 5) (6 digits)
3	Temperature equation constants
	Three 8-character numbers
4—24	Temperature sensor calibration data
	Two 8-character numbers each
25	Separator flag
26-end	Ordinate ratio (3 digits) referenced to 95 followed by time in seconds after
	launch (4 digits)

3.2.2 Coded Temperatures (Attachment 3)

Record	Contents
1	Test number (5 digits)
2	Station number (2 digits)
	Month (2 digits)
	Day (2 digits)
	Year (2 digits)
	Time of launch, GMT (4 digits)
	Type of instrument (3 digits)
	Plain language name of motor
	Туре
	RAEMG group (see attachment 1, tables 1 through 5) (6 digits)
3—end	Coded temperatures (4 digits) followed by time in seconds after launch (4 digits). Temperature is coded by adding 50 to all negative temperatures and omitting the minus sign.

3.2.3 Missing Temperatures

Records 1 and 2 are the same as in the preceding paragraphs; in this case, they constitute the entire file.

3.3 Co-Rawinsonde Data

The co-rawinsonde input data is the 250-meter output data from the rawinsonde program. Attachment 15 illustrates the format of this file. Its contents are as follows:

Altitude Meters
Wind direction Degrees

Wind speed Meters/second
Temperature Degrees Celsius
Dewpoint Degrees Celsius

Pressure Millibars
Relative humidity Percent

Absolute humidity Grams/cubic meter
Density Grams/cubic meter

Refractive index Microwave in N units, optical

Velocity of sound Knots

Shear Seconds⁻¹

Vapor pressure Millibars

Precipitable water Millimeters

3.4 Control Data (Operator Dialogue)

A sample of the operator dialogue follows:

IS THIS A NIGHT RUN ? YES/NO

? NO

IS THIS A MATTY RUN ? YES/NO

? YES

4.0 OUTPUT

The primary output of the program is constant altitude data in kilometer intervals, 250-meter intervals, and 1,000-ft intervals. This information is output to the printer, disc file (or magnetic tape), and punch card file. The format for this data is the same to all three files as follows:

Height Geometric feet or meters at standard intervals of 1 kilometer, 250

meters, and 1,000 ft

Wind direction Degrees from true north. Missing data is shown as 999

Windspeed Knots or meters/second. Calm is 000 and missing is 999

Temperature Degrees Kelvin

Temperature correction Degrees Kelvin

Atmospheric pressure Millibars

Atmospheric density Grams/cubic meter

Fall Rate Feet/second or meters/second (determined by height units)

Speed of Sound Knots or meters/second (determined by height units)

Wind Shear Seconds⁻¹

Additionally, in the printer output, there are three quality control sets of data and a rocketsonde message code. The first quality control data set contains tracking information as follows:

Data point time Seconds after midnight

Azimuth angle Degrees from true north

Elevation angle Degrees from horizontal

Range Meters

Height Meters

Data point time Time of day — hours, minutes, and seconds

Time difference between adjacent data points, seconds

Azimuth difference Change in azimuth angle/minute, degrees

Elevation difference Change in elevation angle/minute, degrees

Range difference Change in range/minute, meters

Height difference Change in height/minute, meters

The second quality control data set contains temperature information as follows:

Height Meters

Temperature Temperature of the rocketsonde instrument, degrees Celsius

Temperature Temperature of the rawinsonde instrument, degrees Celsius

Temperature difference Difference between above two temperatures at the height indicated

The third quality control data set is a graph of temperature in degrees Kelvin versus height in meters. The graph covers a range of 20,000 to 70,000 meters in height.

The teletype output is the rocketsonde coded message. Attachment 10 shows a sample copy of this output and attachment 11 gives a breakdown of the code.

The High Altitude Meteorological Data (HAMDATA) output is saved on disk for use as input to the HAMD program. A sample copy of this data is shown in attachment 14. The first section of this file consists of:

Column	
1—5	Altitude in geometric decameters
6—8	Wind direction with respect to true north, degrees
9—11	Windspeed in whole meters/second
12—15	Uncorrected y component, with a minus sign indicates northerly component, blank for southerly component
16—19	Uncorrected x component, with a minus sign indicates easterly component, blank for westerly component
20—23	Corrected y component, with a minus sign indicates a northerly component, blank for southerly component
24—27	Corrected x component, with a minus sign indicates an easterly component, blank for westerly component
28—30	Fall rate in whole meters/second
31—34	Temperature in whole degrees Celsius
35—37	Temperature correction, with a minus sign indicates negative temperature correction, blank indicates positive correction, whole degrees
38—44	Pressure in millibars to four significant digits with one digit to the left of the decimal point, three digits to the right of the decimal point, and a signed "exponent" to indicate the power of 10 by which the number is to be multiplied.
	Col. 38: first significant digit (never zero) Col. 39: decimal point Col. 40—42: three additional significant digits Col. 43: sign of exponent (never blank) Col. 44: power of 10 by which number is to be multiplied
45—51	Density in grams/cubic meter, same format as pressure
52—54	Speed of sound in whole meters/second

The second section of this file contains data as follows:

Height	Meters
Wind direction	Degrees from true north
Windspeed	Meters/second
Temperature	Degrees Celsius
Dewpoint	Degrees Celsius
Barometric pressure	Millibars
Refractive index	N units

5.0 ALGORITHMS

5.1 Subroutine MANDL

Convert mandatory level pressure to whole number for output in rocketsonde code using

IPS =
$$(10^{PL(J)} + F1) (10^{JS}/10)$$

where IPS = pressure at mandatory level encoded as a whole number

PL(J) = log of the pressure at the mandatory level being converted to a whole number

F1 = round off factor used to move decimal point, this factor is based on PL(J)

JS = intermediate factor based on the pressure level indicator J which is set by the number of levels processed

If
$$J \ge 31$$
, $JS = 6$
 < 31 , $JS = 5$
 < 26 , $JS = 4$
 < 21 , $JS = 3$
 < 16 , $JS = 2$
 < 10 , $JS = 1$

5.2 Subroutine TWOKM

Set up values that are to be used when calling SIMQ by multiplying elements of the matrix and assigning to proper place in symmetric coefficient matrix (A).

$$AX_{(I, J)} = XA_{(I, J)} + XC_{(K, I)} \cdot SC_{(K, J)}$$

 $AY_{(I, J)} = YA_{(I, J)} + YC_{(K, I)} \cdot YC_{(K, J)}$

Set up values that are to be used when calling SIMQ by multiplying elements of the matrix and assigning to proper place in constant vector matrix (B) using

$$BX_{(I)} = XB_I + XC_{(K, I)} \cdot X_K$$

$$BY_{(I)} = YB_I + YC_{(K, I)} \cdot Y_K$$

Using the coefficients returned from SIMQ, calculate a smoothed x and y from

$$SX = a2XB3 + aXB2 + XB1$$

$$SY = a2XB3 + aYB2 + YB1$$

where

$$a = 5$$

XB = coefficients returned from SIMQ

SX = smoothed east-west component

SY = smoothed north-south component

5.4 Subroutine SIMQ

The least squares method provides a best fit of the components by generating a second degree polynomial equation, of general form:

$$y = k_2 x^2 + k_1 x + k_0$$

and computing an offset from the center of the 9-point range. Two matrices are created designated [A] and [B]. Symmetric coefficient matrix (SCM) [A] is in the form:

$$N \quad \Sigma X_{i} \quad \Sigma X_{i}^{2}$$

$$[A] = \Sigma X_{i} \quad \Sigma X_{i}^{2} \quad \Sigma X_{i}^{3}$$

$$\Sigma X_{i}^{2} \quad \Sigma X_{i}^{3} \quad \Sigma X_{i}^{4}$$

and constant vector matrix (CVM) [B] is in the form of:

$$= \Sigma Y_{i}$$

$$[B] = \Sigma X_{i} Y_{i}$$

$$= \Sigma X_{i}^{2} Y_{i}$$

Note: Σ indicates summation from 1 to N. N=9

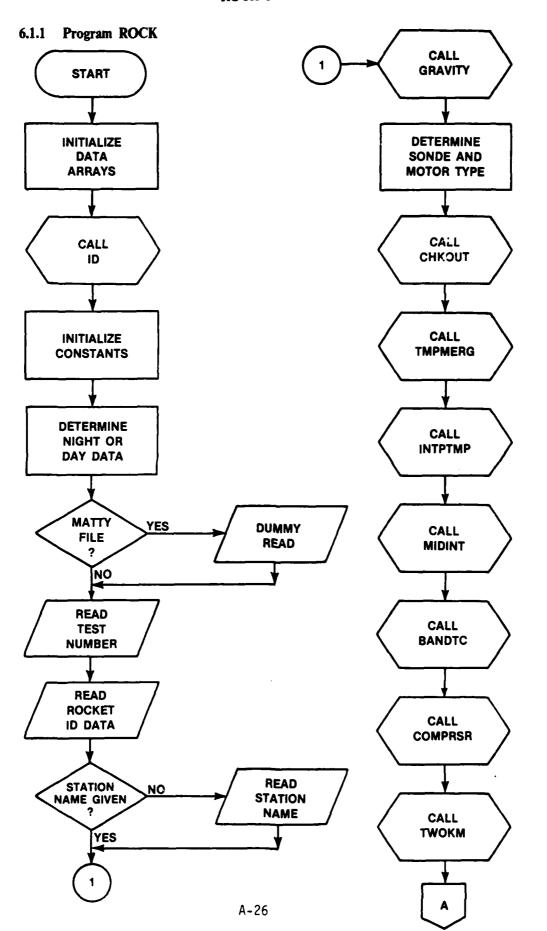
Basic matric equation [A] [K] = [B] is solved by finding the inverse of [A], $[A]^{-1}$ and performing multiplications:

$$[A]^{-1}$$
 $[A]$ $[K] = [A]^{-1}$ $[B]$
 $[I]$ $[K] = [A]^{-1}$ $[B]$

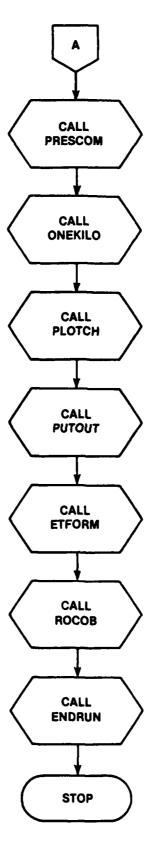
[A]⁻¹ is calculated by SIMQ using the GAUSS-JORDAN inplace matrix inversion method. SIMQ returns the appropriate coefficients k_2 , k_1 , and k_0 , which the calling routine incorporates in calculating the appropriate values.

6.0 FLOWCHARTS

See the following pages.

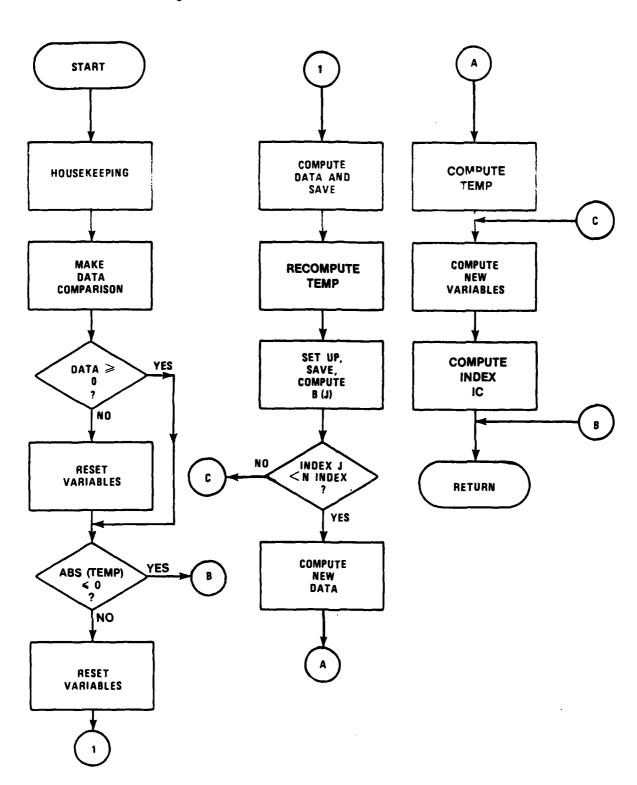


6.1.2 Program ROCK



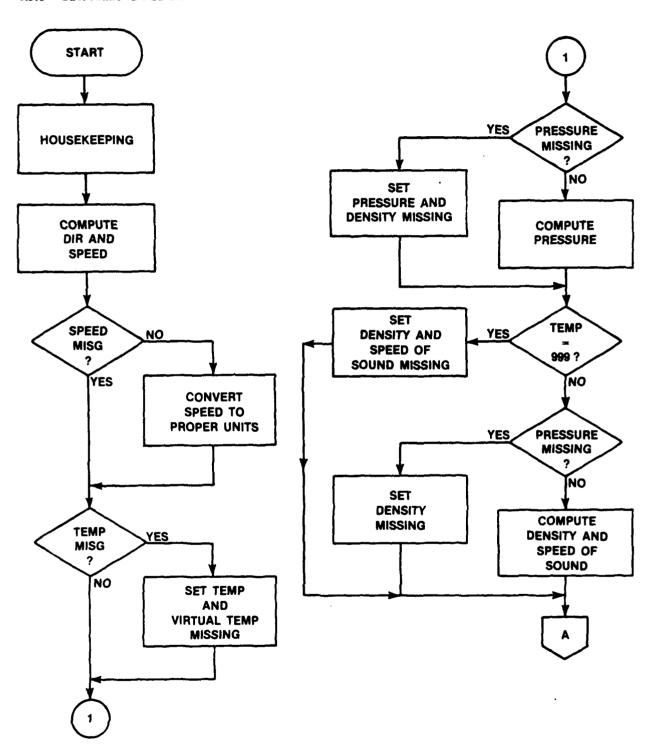
A-27

6.2 Subroutine SIMQ



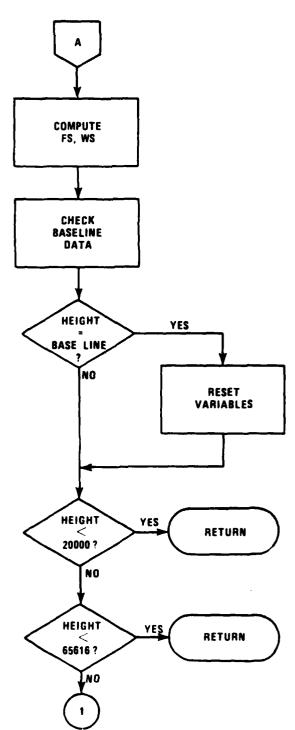
and the state of the transmission of the state of the sta

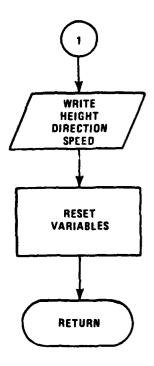
6.3.1 Subroutine OUTPUT



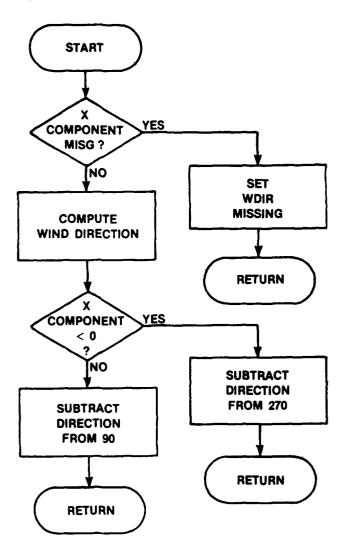
HARACA CALLACA MANAGA

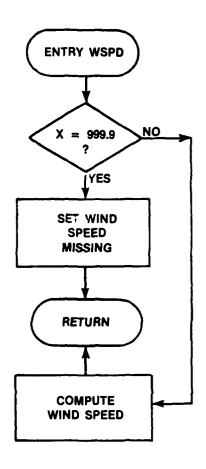
6.3.2 Subroutine OUTPUT



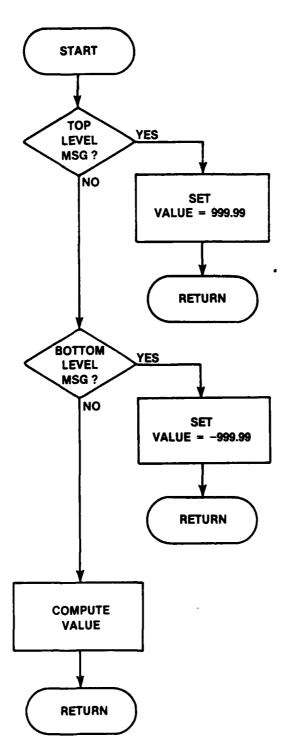


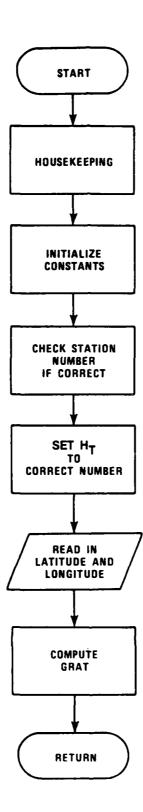
6.4 Function WDIR

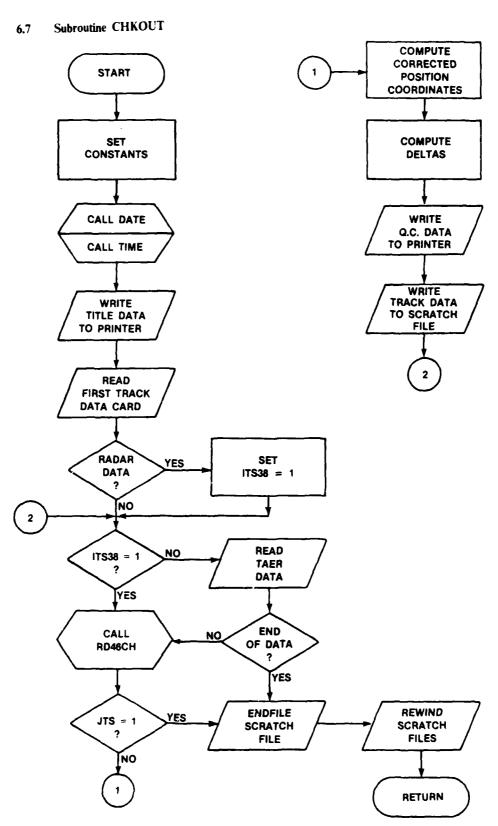




6.5 Function VALUE

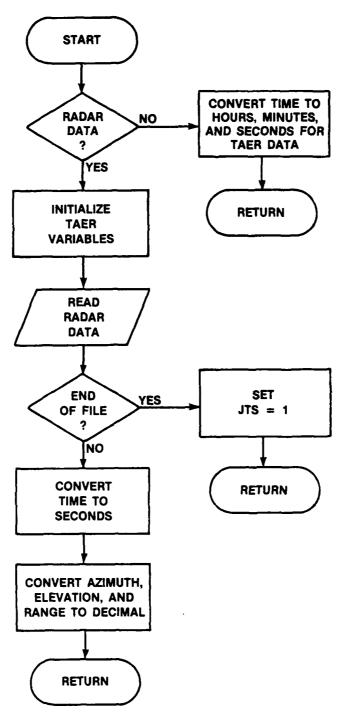




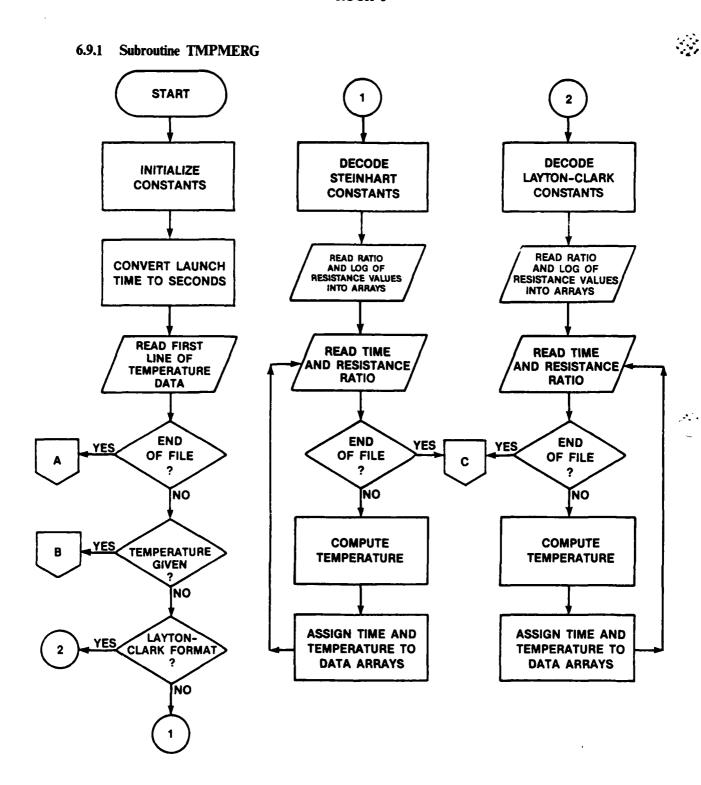


A-34

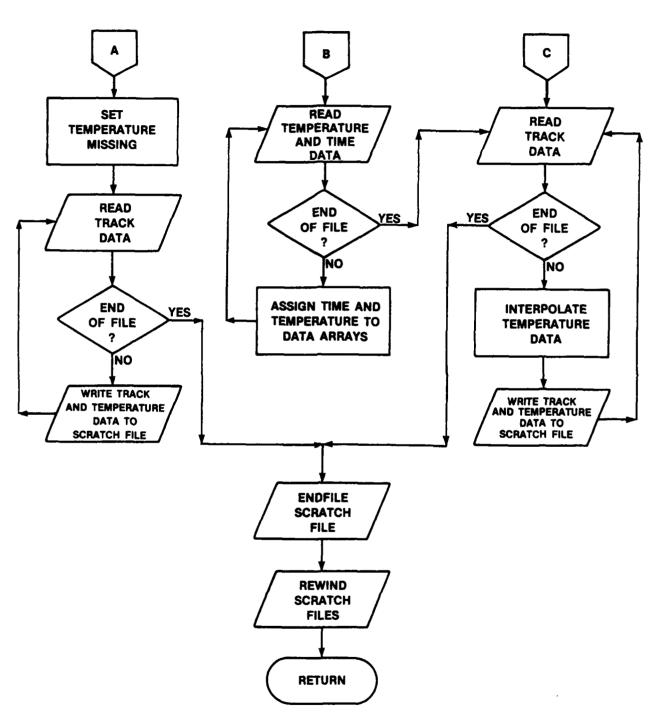
6.8 Subroutine RD46CH



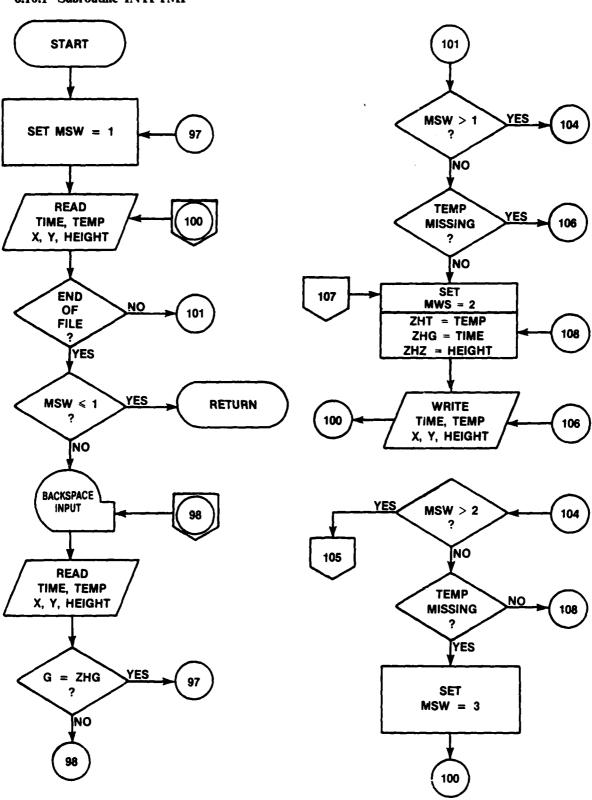
5/



6.9.2 Subroutine TMPMERG

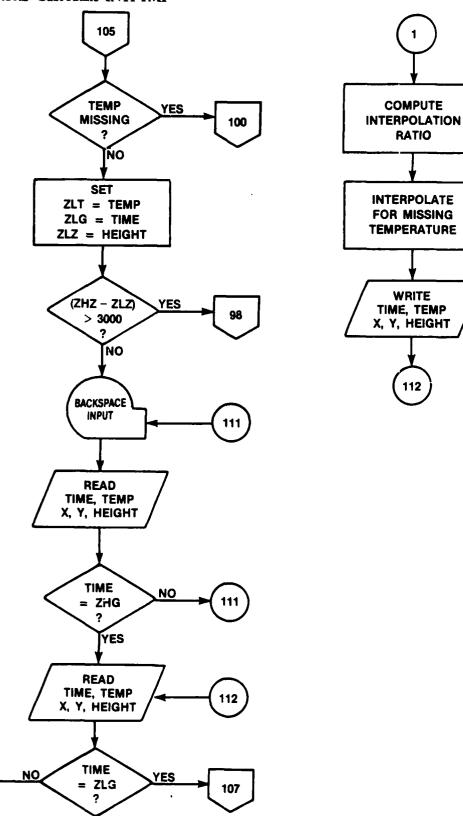


6.10.1 Subroutine INTPTMP

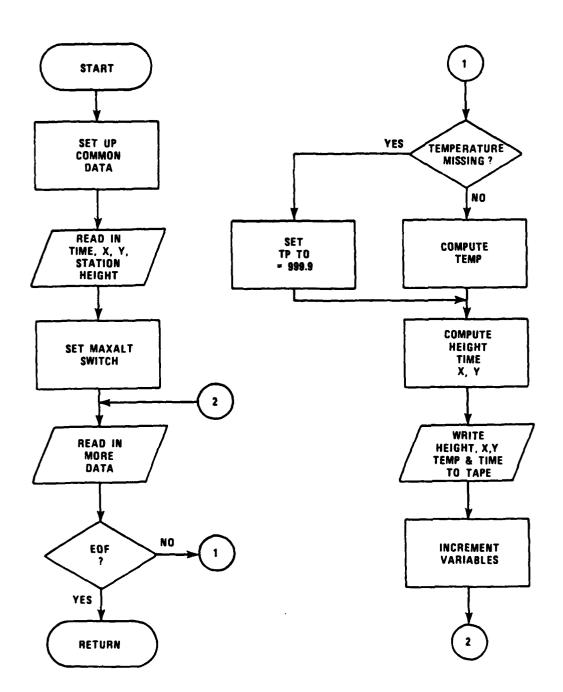


A-38

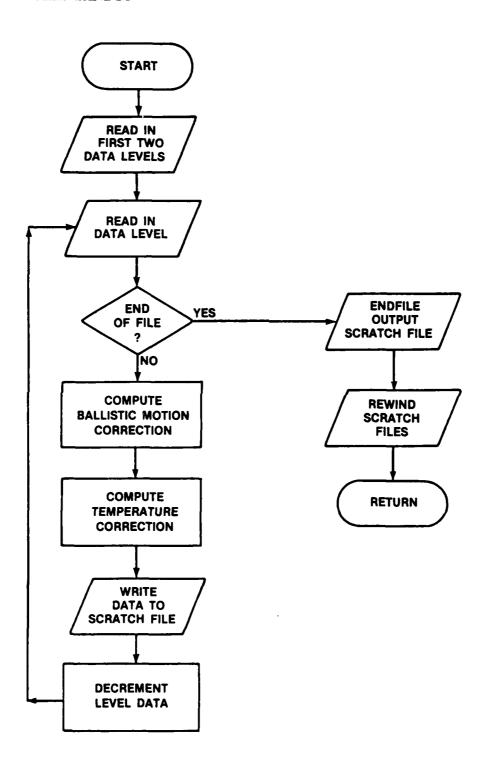
6.10.2 Subroutine INTPTMP



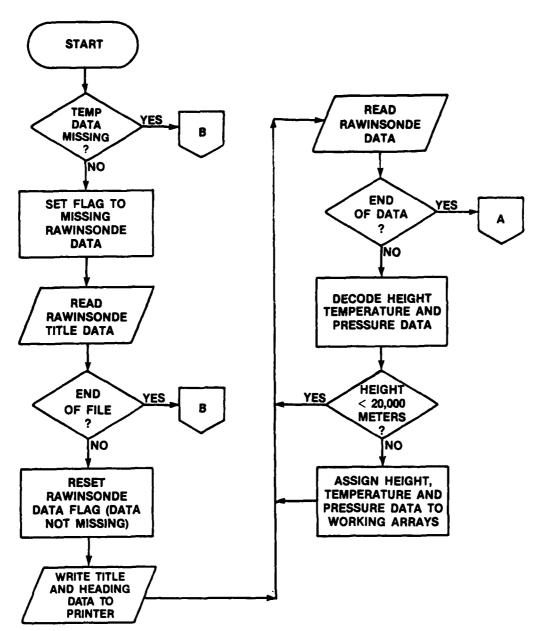
6.11 Subroutine MIDINT

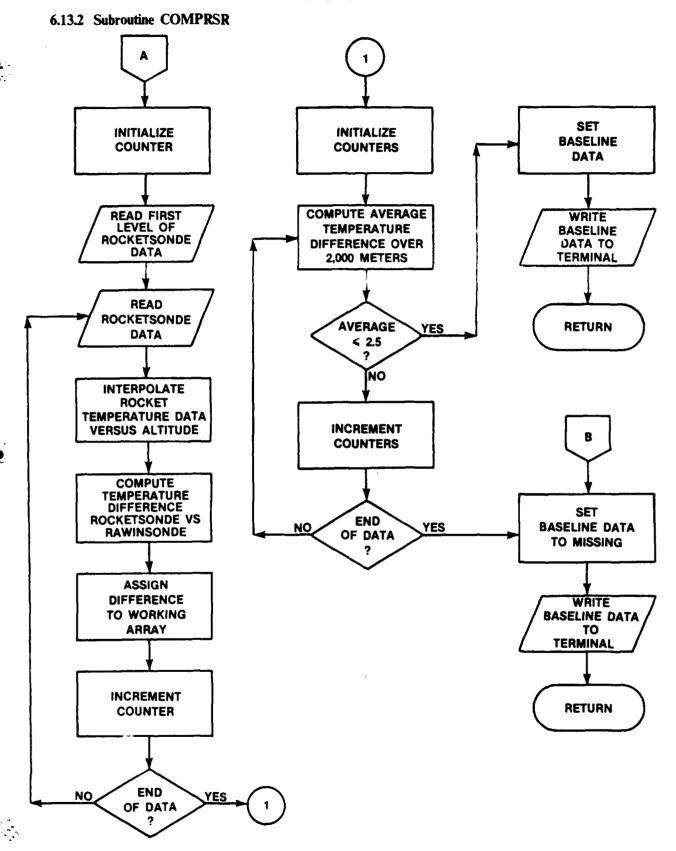


6.12 Subroutine BANDTC

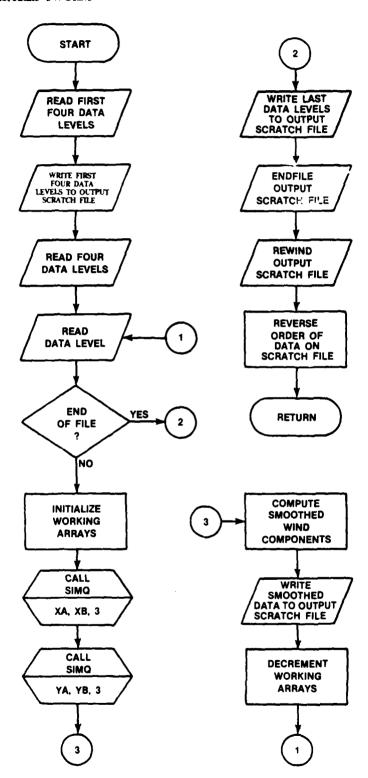


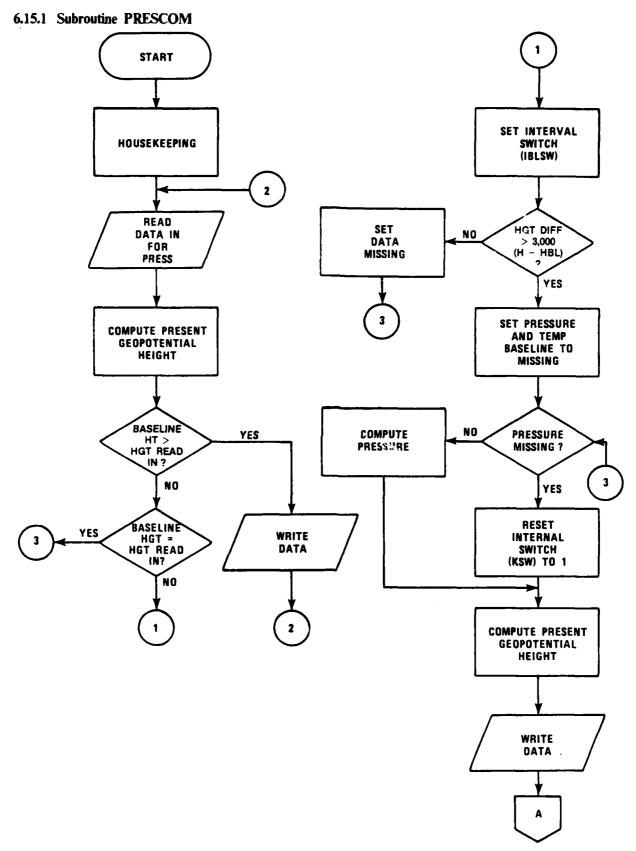
6.13.1 Subroutine COMPRSR





6.14 Subroutine TWOKM

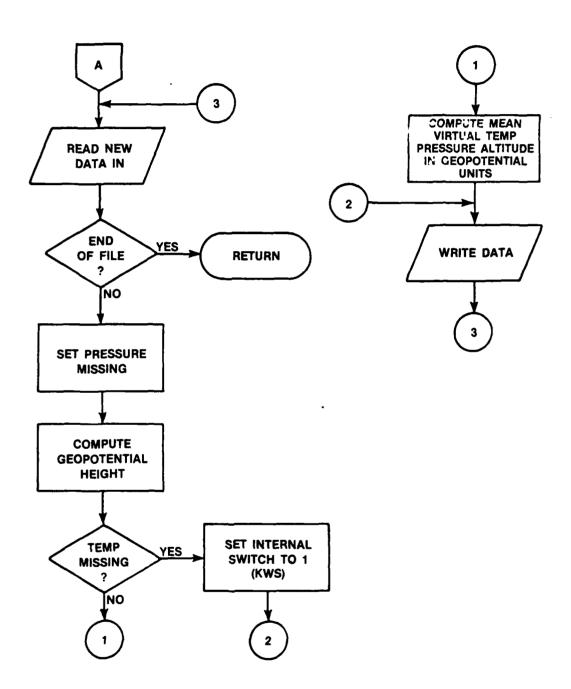


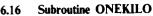


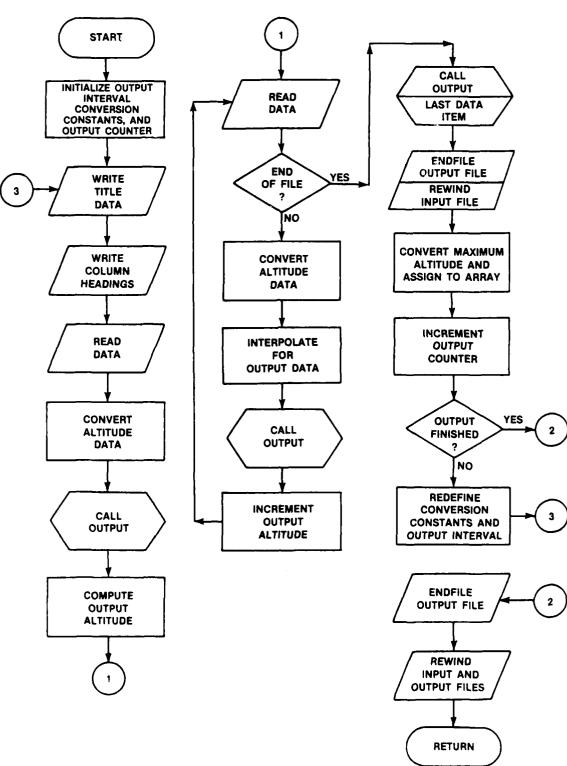
A-45

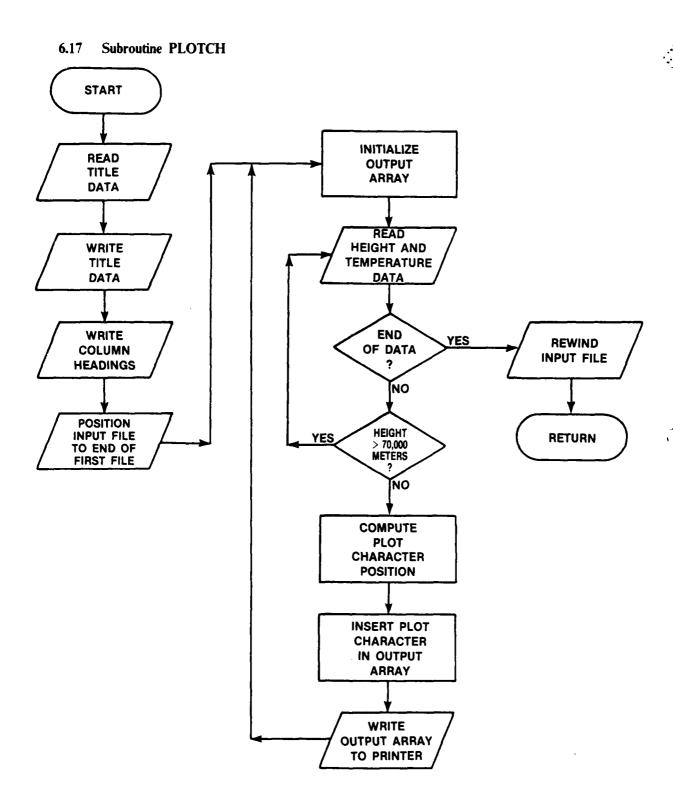
6.15.2 Subroutine PRESCOM



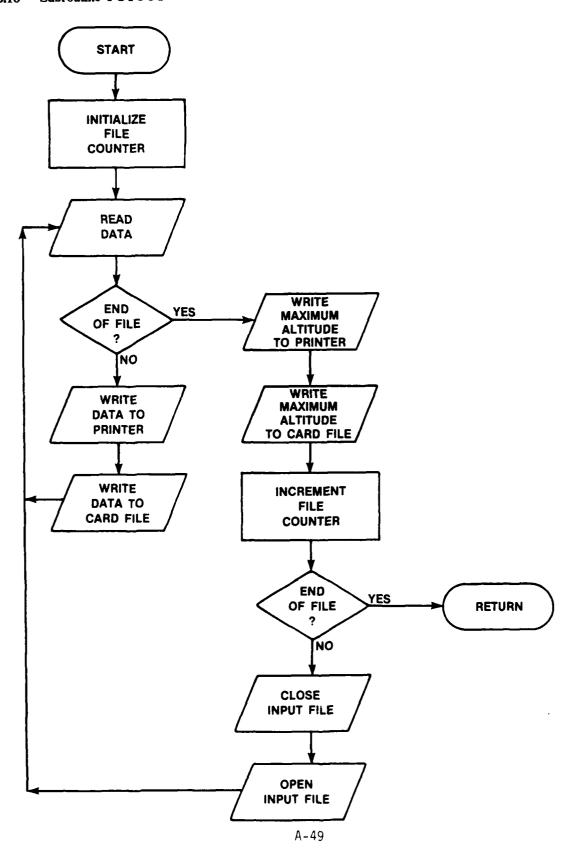




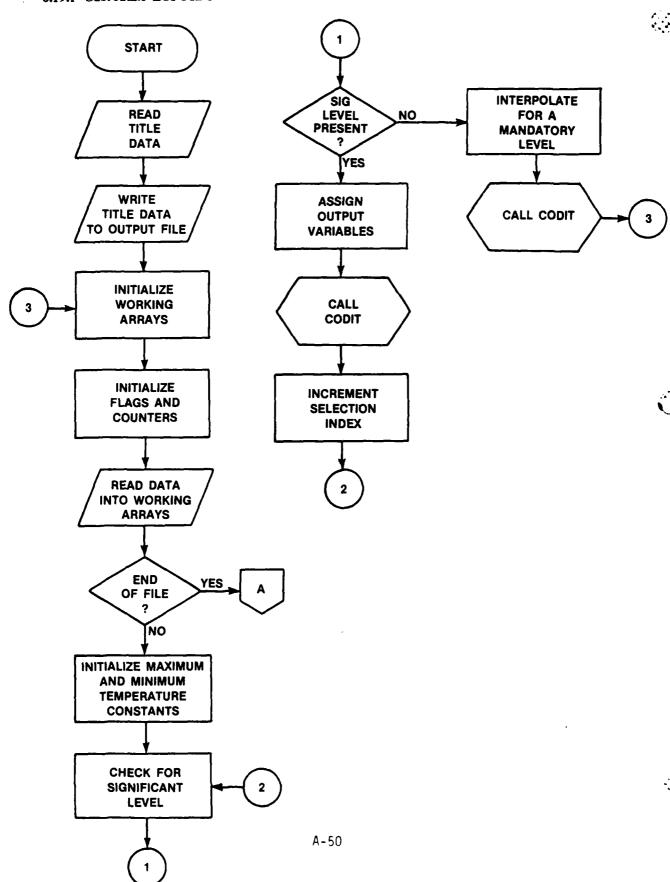




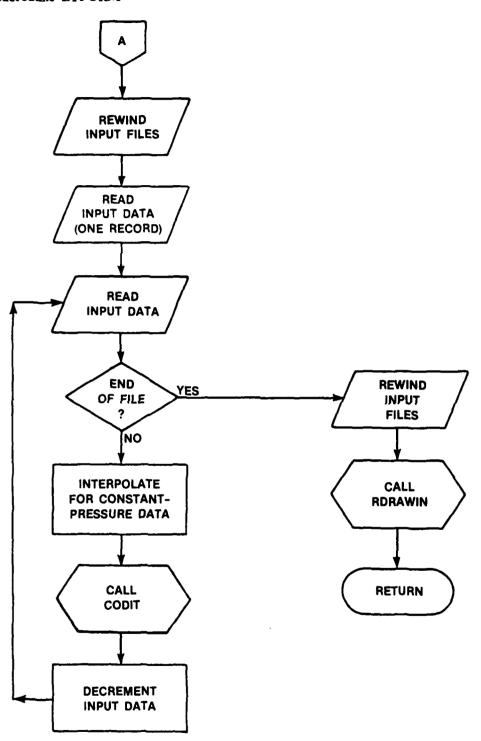
6.18 Subroutine PUTOUT

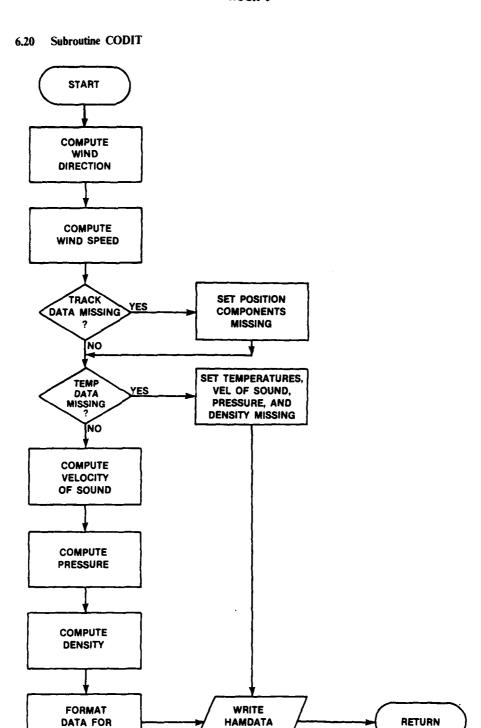


6.19.1 Subroutine ETFORM



6.19.2 Subroutine ETFORM

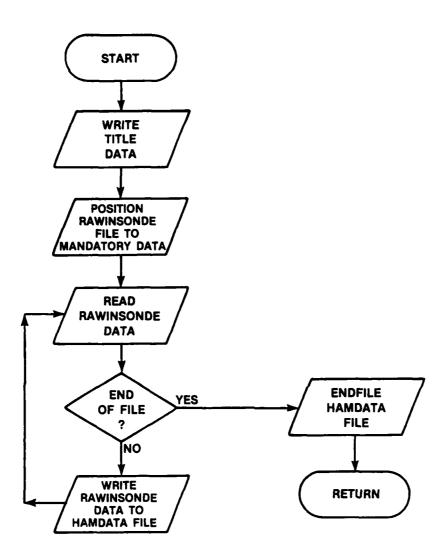




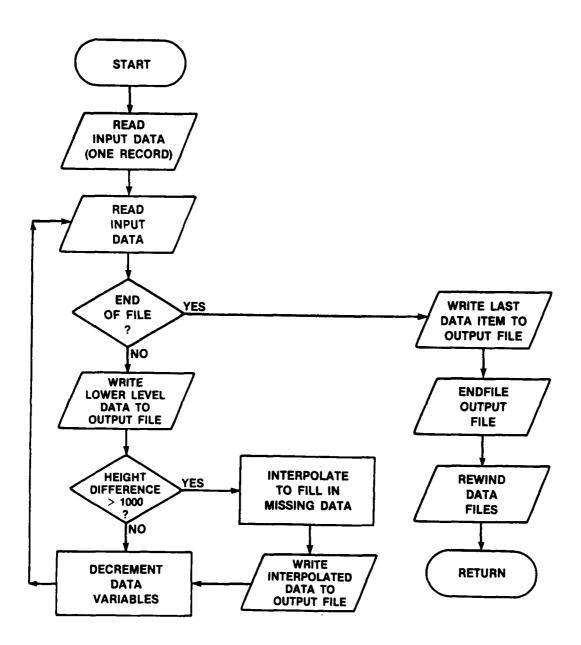
TO FILE

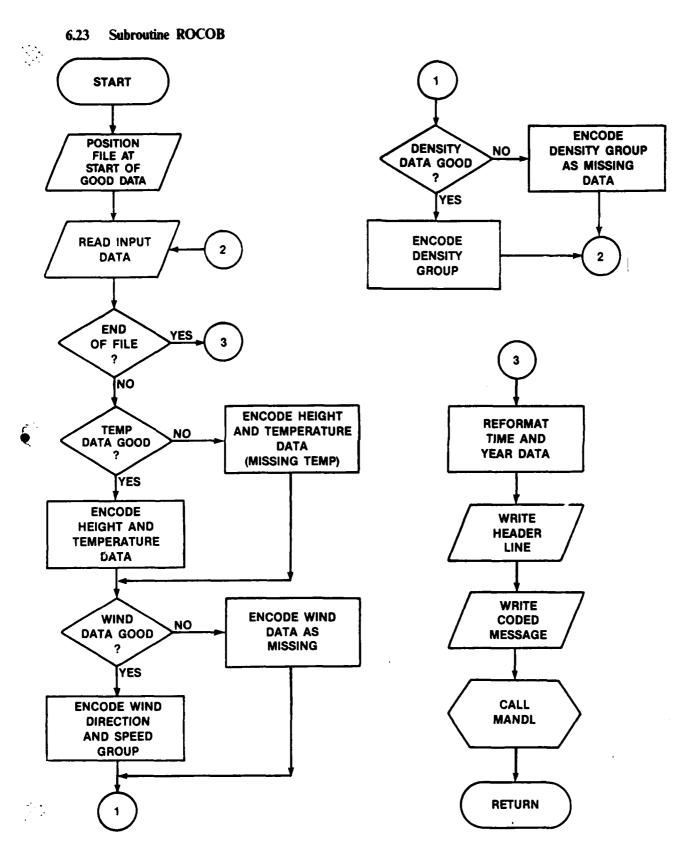
OUTPUT

6.21 Subroutine RDRAWIN



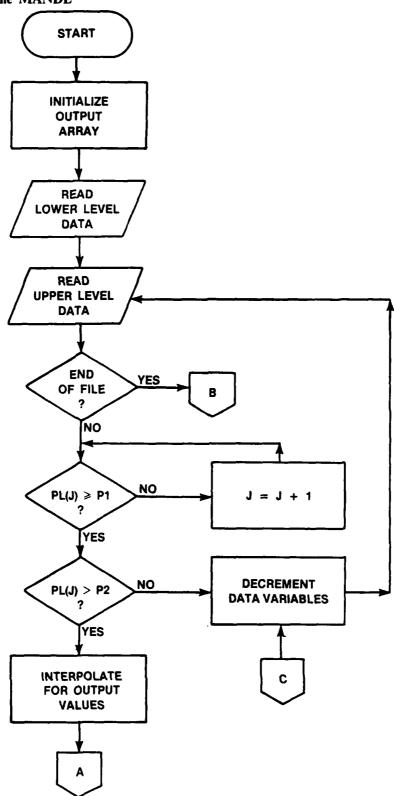
6.22 Subroutine INT



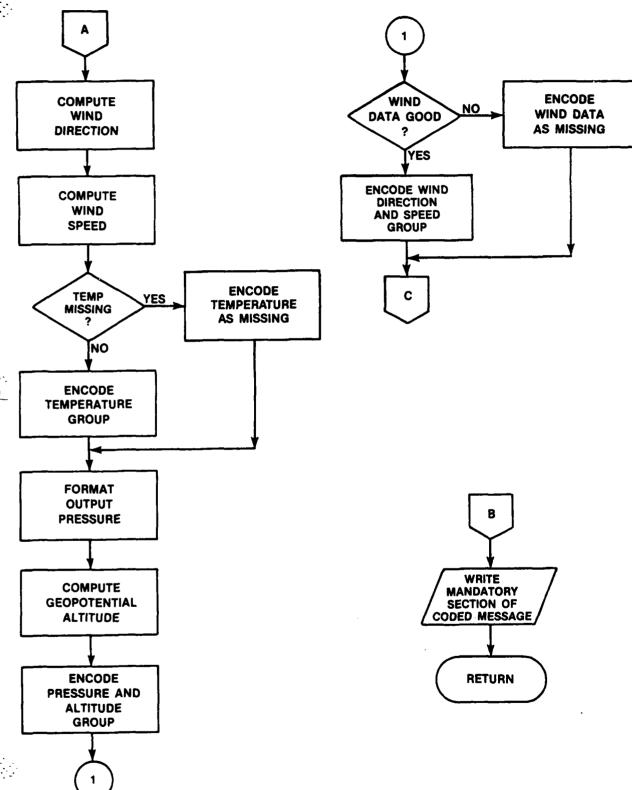


A-55

6.24.1 Subroutine MANDL



6.24.2 Subroutine MANDL



7.0 MATHEMATICAL AND PHYSICAL CONSTANTS

7.1 Program ROCK

6371229.315 67.442 (Mean Average) radius of the Earth, meters

Constant in the hypsometric equation, SMT, List 1968

See attachment 9, table 1 for constants ATC, BTC, CTC, CTD, and DTC.

See attachment 12 for logs of mandatory pressures.

7.2 Subroutine SIMQ

None

7.3 Subroutine OUTPUT

348.38

Gas constant for dry air with pressure in millibars and density

in grams/cubic meter

331.45

Speed of sound at zero degree Celsius, miles/second

273.15

Converts degrees Celsius to degrees Kelvin

7.4 Function WDIR

57,29578

Degrees/radian

7.5 Function VALUE

None

から 書かられるのと 書かららららい

7.6 Subroutine GRAVITY

Station height of Cape Canaveral AFS in meters 5 Station height of Antigua AAFB in meters 79 Station height of Ascension AAFB in meters 28.29 Latitude of Cape Canaveral AFS, degrees 17.7 Latitude of Antigua AAFB, degrees 7.58 Latitude of Ascension AAFB, degrees (South) 57.29578 Degrees/radian 0.0026373 Gravity ratio constants from SMT, equation 0.0000059 for Table 168 (Bibliography No. 1)

7.7 Subroutine CHKOUT

0.9144 2.2 Yards to meters conversion factor

Constant used in Earth's curvature correction to elevation angle

(Bibliography No. 2)

7.8	Subroutine RD46CH	
	86400 3600 60 0.125 180 8 1.953125 90	Number of seconds in a day Number of seconds in an hour Number of seconds in a minute Decodes 46-character Radar encoded data
7.9	Subroutine TMPMERG	
	3600 60	Number of seconds in an hour Number of seconds in a minute
7.10	Subroutine INTPTMP	
None		
7.11	Subroutine MIDINT	
None		
7.12	Subroutine BANDTC	
	9.80616	Acceleration of gravity at 45 degrees latitude
7.13	Subroutine COMPRSR	
None		
7.14	Subroutine TWOKM	
None		
7.15	Subroutine PRESCOM	
None		
7.16	Subroutine ONEKILO	
	1.94254 3.280833	Meters/second to knots conversion factor Number of feet in a meter
7.17	Subroutine PLOTCH	
None		
7.18	Subroutine PUTOUT	

None

7.19 Subroutine ETFORM

None

7.20 Subroutine CODIT

None

7.21 Subroutine RDRAWIN

None

7.22 Subroutine INT

None

7.23 Subroutine ROCOB

None

7.24 Subroutine MANDL

None

8.0 **BIBLIOGRAPHY**

- 1. List, R. J., "Smithsonian Meteorological Tables," Smithsonian Institution, Washington, D.C., Sixth Edition. Smithsonian Miscerlaneous Collections, Vol. 114, 1958.
- 2. Gustafson, A. F., "The Error in Rawin Computations Due to Neglecting the Earth's Curvature," Bull., AMS, Vol 35, No. 7, pp. 295-300, September 1954.
- 3. Eddy, et al., "Determination of Winds from Meteorological Rocketsondes," University of Texas Report Number 2, University of Texas, November 1965.
- 4. Krumins, M. V. and Lyons, W.C., "Corrections for the Upper Atmosphere Temperatures Using a Thin Film Loop Mount," NOLTR 72-152, Naval Ordnance Laboratory, 22 June 1972.

ATTACHMENT 1 RAEMG CODE TABLES

RAEMG CODE Tables:

Table 1

Symbol R = reason for no report and ground equipment employed

Code

Figures

0	Launch not scheduled
1	Rocket motor failure
2	Instrument (or telemetry) signal not received
3	Ground tracking equipment failure
4	Range restriction prohibited launch
5	Weather prohibited launch
6	Lack of expendables prohibited launch
7	Radar only employed
8	Radar and telemetry equipment employed
9	Telemetry equipment employed

Tables 2 and 5

Symbol A = thermodynamic correction technique

Or

G = wind correction technique

Table 3

Symbol E = method of reducing data

Code

Figures

0	Manually — nomogram
1	Electronic computer
2-8	Unassigned
9	Other method

Table 4

Symbol M = type of wind sensing equipment

Code

Figures

00	No wind sensor
01	Chaff, experimental
02	Chaff, metalized
0309	Unassigned
10	Parachute, experimental
11	Parachute, 0.5 to 3.5 meters diameter
12	Parachute, 3.6 to 5.5 meters diameter
13	Parachute, greater than 5.5 meters diameter
14	Mesh decelerator, experimental
30	Starute, experimental
31	Starute, 0.5 to 3.5 meters diameter

Table 4 (continued)

Code Figures	
32	Starute, 3.6 to 5.5 meters diameter
33	Starute, greater than 5.5 meters diameter
50	Sphere, experimental
51	Sphere, inflatable
55	Grenade, experimental
60	Chemical trail, experimental
65	Meteor trail, experimental
70	Remote sensing, experimental

ATTACHMENT 2 SAMPLE COPY TEMPERATURE DATA WITH RESISTANCE VALUES

2.174047 .4242482 2.301024 .3434424 2.477120 .2844158

2.47110 2.47111 1.1110 2.47111 1.1110 2.47111 1.1110 2.47111 1.1110 2.47111 1.1110 2.47110 0.0



ATTACHMENT 3 SAMPLE COPY TEMPERATURE DATA WITH CODED TEMPERATURE VALUES

ATTACHMENT 4 SAMPLE COPY OF GMD-4 TAER DATA (ROKE OUTPUT)

(•	•		,								^	,									R	oc:	K 3	ì	•							,	-		_	•	_		,	,	$\overline{}$,	, -	
	:			ļ												:			•	1	ļ						:	:					1						Ì	1				•	
														,		:			1	1	ا		,					- !					1						t	,					
																!												;			i										i				
				i															i					; ;			1				ļ.		1						:	1	1				
				:															[: :					1		ı					-	!			i				i I	:	!				
														,					1	1			i					ļ																	
													!										•								:		!				;								
÷													1			:	-											j			1						!		:		:				
																			1	:	1		:	1																1					
																								i								!	ļ				i		:						
																		•														!				t			i	1	:			ı	
																				1			i 									1							!	!	į			:	
٠.																								:											į					1					
₹.,																																1			1				:	;	1			İ	
															:																								:	:	i				
																							1												:	;	į		:	1	-				
				ļ.																															İ					İ			. !	!	
								į																																			-		
				1			:	1		i																																			
				•			•	;									ł											Ì							ŀ	1				1			ı		
							•	:		<u>.</u>								_			_					h				. ~				_ ~	:								<u> </u>		
	4.96.94	- F	72017.6	71617	7000	1320.1			, , , , , ,	****	4.17174	3 () E	A COAK	FF 07.	64727.3	***	63074	£ 32 E 7 . 9	100	233	A1 PO1 . R	0921	197A	117.	,c. (3.	59777.59	0000	37006	F6366.7	F4010.R	53695-7	20516	12623.1	F1646.2	300116 50450	F0261.0	40P41.4	7. 1107	0 5777 D	1	7474.1	7	4,17673	20000	,
				1							σ ,					- 1	- 1		ł						40	23. 15.	22		56 F.	7 V	1	- 1	- 1	` "	į	Į	- 1		1	- i	- 1			t	4
		,		F 1. 4 *	10° C	64.367	4	7 4 4	•		•	70.77	6.04	9.4	65.602	4.0.4	175.27			400	A4.813	664.44 664.84	66.5	3 F	F5 54.304	6.4.1	100	F	63.10	£2.717	F 2 2 2	1.0.14	f1.607	61.224	191:14	F.O. 5 FE	40.274	14.67	80.0	calle.	F0.020	1 2	# a	¥00° = 1	0.00
	103.193			200.142	04.54	650°06	0F.447	2 4	(70 .	10¢. 10c	35.40.	74.170	160	~ (7818	191.674	2 0 0	PC. 701	464.04	3		104.267	145:713	184.834	A6.185	0 183.297 64.1C3	7.76F		F. 803	76.354 62	173,C7F	. set	171.774		944°44	7.063	45.753	157.164	147. FRT	158.920	60.404	70. 331	9.403 0.404	ъ.	11.2.11
						_		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	_		_					- 1		7-		-	al 0	41 0:	0 0		0.0	9	4.0	.0 17	0 176		¢	0.		4 -		_ [_ ~		•	~ •			٠,	→
	49£50.n	4669	49469.0	0.04.040.0	49449	46 32	C. BEA04	40/0	97.5	de60.	4972A.0	0 7 6 0	1974.	59752	4976.0	19770	0.4770	497AF.0	49794-0	40906.0	49812.0	49824.0	#9830:0	40030	4984	49656.0	40804 D	1166	26061	0.06964	50004-0	-0005-u	50040.0	50076.0	*0004.0	50130.0	10149	0176	0220	35	10256	50792.C	0310	1034A	5.25

																										: !																	
																												1															: !!
																																		,									
																								1																			
																								;																			: : :
		,																																								,	
J. 10777	 431462	2 64667	42172	0.2003	4 21. 24 4	47466.9	0.11764	4,97,44	42011.4	41778.1	۴]۴]، • ن	4]44(.1	41921 • 3	211ch.7	41064.2	4,00 to 0	40858.0	4n798.1	407=2.2	20K2F.7	0.00474	403400	4024.1	50706.0	40141.4	2004P.0	10612.7	- 7. TUBE	365000	1.20201	40404	30421.4	39245.0	30115.0	7. 67045	- 0. cc48r	39455.2	30127.0	•		•	,	
171,437 69,041	174.17F T#.7A7 176.30F * 1. 620								144,207 +4.142	10x, 12x 5x, 733										•						710,580 44,057											204.7 to 37.070						
_ 0.7460# _ 0.040#	0.*1.00.						FOF44.0	50552.0	£044C.			10534.n]														;	51240.C	*1300°0		51420.0													:

ATTACHMENT 5
SAMPLE COPY OF MATTY DECK

```
52477.3
             50001.
                                                                                                                                                                                                                    50156
                                                                                                                                                                                                           ocr.
                                                                                                                                                                                                                        10157
                                                                                                                                                                                                                             4545
                                                                                                                                                                                                                                      91.50
                                                                                                                                                                                                                                 10401
77.171
                                                                                                                                                                                                                        1.177
                                                                                                                                                                                             15.313
                                                                                                                                                                   70.
                                                                                                                                                                                        70. 103
                                                                                                                                                                                                                    7.6634 7
                                                                                                                                                                                                                                     52.244 7
52.244 7
51.477 7
                                                                                                                                                         51.483
                                                                                                                                                                                        50.00
54.50
54.50
                                                                                                                                                                                                       7.6624
                                                                                                                                                                                                                        1.36.3
                                                                                                                                                                                                                                 3.421
                                                                                                                                                                                                           7.062
                                                                                                                                                              11.402
                                                                                                                                                                               9.465
                                                                                                                                                                                    10.111
                                                                                                                                                                                                  7.002
                                                      73. 45.
73. 45.
73.27.2
73.27.2
                                                                                                                                                                      .3.319
                                                                                                                                                                                                                                                   0.943
                                                                                                                                                                                                                                                       44.33
                                                                                                                                                                           3.
                                                                                                                     0.6817.4
4-133.7
4-26
                                                                                                                                                                          47199.0
47213.0
47211.0
47273.0
                                                                                                                                                                                                    47235.0
                  45935.0
                                                                                                                                                                                                                                              7.0.1
```

ATTACHMENT 6 SAMPLE COPY OF 46-CHARACTER DATA

7911215 | 214 | 224 | 227 | 227 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 237 | 23 791121*136031776453217174600786853516034983 292250107673177613071367146606671761515161187 77112141314)174121021474400064554410924982 791121514[671772773]*15764[6666502710] 291121-141221716-702184470660445671692498 79112141424011777777144040006443301094943 791121410347744129021046106666467169249 791121526666744678387183148888644444448888 1011101

C 2014 Ft 773374740 FT N 75 + 4 N 1 1 324 WAS

8576501122126 190 1361666555555555555161

. 80.76501113622 16.3000 16.6661116661364121162

																					R	oc:	K	3																							
•						Markey Statement of the first terminal experience on the contract of the contr	:						•														where the second					A part of the second se										A CONTRACT OF THE PARTY OF THE					
· ·	4.4	L 4				· · · · · · · · · · · · · · · · · · ·	16	P	Üα	MT	P 2	TO CO	To the second of	, a	ж.	et ec		06	00	7. C	40	\$4	36	<u> </u>	EP		001	102	103	104	40°	107	108	104	011	112	EIL .	114		116	110	011	120		122	123	
791121121122112111211111111111111111111	516556016565656565666666666666666666666	*************************************	* 5400013371969174623100066445	219242401137427400001444100734401013443412	791121 52554 (1417) 7717 751 7517 7517 7517 7517 7517 75	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	£2624.141570111725640006534121602498	7871751751751751761761761761761761761761761761761761761	2116	- Pallor 1 2 1 2 1 1 1 1 1 1 1 2 2 2 2 1 1 1 1	79112152848614147317127000005214410924982	79112152412664	######################################	-30240141+5101674-70000513431792498	79112153048714174201673760005121310924982	79112153112614213701670500005104216924982	5413+0142-7201846230000908651092408	7311214373314271531662270005045310924982	TYLIZ	701121 554401455 1101141 000 11410 104541		¥ 791121734000141:370163425000000005310924982	7867201642401010164616740163618000000000000000000000000000000000	5791121 * 14440140613016251700004763510924982	741171717171717171717171717171717171717	//LCL-3-3-3-7-6-1/-(LOLP-204400004-346-1042498/	######################################	79112151514440114741014040100004703410924982	791121 -3712013-743015034300C04671210026082	731121537363137075016417390004456510924982	7971271370007137777017777100777770004743717047744777	***************************************	79112157912013474101*666500004111110974982	731121 *4003113430571* +55730004447810474987	-241121 - 1450 -	21	<u> </u>		865260166945000094004105665516216	791121443446143440144645600046406516924982	7931371 **********************************	**************************************	791121545123150054014236300064642310924982	7911219443471410*6014157100004843K100240R2	79112154606615143014111700664442416924987	791121846465155157014004400140044771602487	

ことを見なるのかのない。

1

ŧ

•

ATTACHMENT 7

SAMPLE COPY OF PRINTER OUTPUT (SEE ATTACHMENT 5 FOR INPUT DATA)

•							ŧ																				RO	CS .			:										
					i								:					;													•	1					•				
	. 005	500.	. 005	. 605	.002		100.	1001	100.	200.	700	. 000	1000·	.002	.002	.002	200		. 002	.003	7007	992	.003	.002	.007	, 600 t	, 008	800.	9008	.008	.008 .008				*****			•			
	-			m		32.7		329	330	330.41	Ĭ			7				325.7B			729 60				327.87	!	- }	325.36	1	323	322.50										
		40,	41.	4.24	43.	44.	44	4				47.78		,				23.42	ļ					l	60.46	\$	j	64.47		67.	68.68			;	;						
	1.1445	1.1105	1.0775	1.0455	1.0123	. 9793	.9474	.9166	.6867	. 8585	0.750	787	7395	. 7366	.7145	15.69	6725	6709	0419	.5958	847C	5451	. 5292	.5132	4987	67.7	4584	. 4460	4721	4107	. 3995			1					-		:
	. 8851	. 857y	9188.	. 8060	- 7813	. 7574	.7343	, 7118	6900	6899	9869	. 4097	5911	. 5731	. 5557	5387	5223	2003	4759	. 4614	447.75	4201	.4072	. 394Z	.3826	10:52	3478	.3369	.3161	3062	.2966				1					!	
	-1.65	-1.17	-1.68	-1,99	-2.05	80 .	2, 12	-2,15	-2.19	지 () ()	77.	1 (1) 1 (1) 1 (1)	10.27	-2,28	-2,33	-2.41	2,48	27.00	-2,71	-2.77	-2. B0	-2,87	-2.90	-2.94	-2.97		-3,28	-3.41	-3.66	-3.ZB	-3.91	:		1			ı		İ	•	i
	269.41	2.69.13	268.85	268,58	268.89	269.44	270.00	270.55	271.11	271.44	271.32	271.23	271.16	271.09	270.95	220.76	270.58	270.00	270.03	269.77	40 846	268,52	268.11	262,69	267.28	245.50	264,35	263.20	260.90	259, 75	258.60	1000	51559	:	:		:				
	\$ (1	e G	100 100 100 100 100 100 100 100 100 100	9	9 2	98	56	97	S.	9 6		9 6	98	- 57 -	79	26	9 6	97.	22	36	4.	22	21	20	16	1	16	57	14	14	41		止	· ·	į		•	1			
	171	769	186	163	162	797	191	760	160	397	101	797	164	797	167	162	168		120	171	7,7	180	183	187	191	3,5	202	214	27.5	237	245		AL 1110	!	1		1	•		:	į
	49250	49500	44750	00004	مئتسد	50500	50750	333 (51250	51500	7	52250	00000	52750	1,3000	53250	5,3500	05/55	54250	5.4500	00000	55250	55500	55750	28000	56500	56750	57000	57500	52750	58129		MAXIMUM ALIIIUNE		:			į		1	

																												:																									•
-1766 27	776	-1736.63	1774.9	1778.9	1756.2	1731.1	1605.6	1508.5	1601.3	1632.7	٥٩	1239.1	1136.5	1056.2	1013.9	4.2001	1048.8	1047.7	1043.3	1022.3	7.2.4	844.7	P16.8	781.8	771.7	752.1	716.7		9000	566.2		8	•		7	10		*	9	֡֝֞֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	9.					•	8			-255.99		-287.24	-320,55
C		0.4R 2	9.240	9.440	057.4	10000	045.0	P91.3	90.30	677.9		140.7	0.49.2	021.2		2,00	9	51.2	54.3	76.67	5 C	60.3	0.40	6.69	7		16.0	50.7	73.4) (V	05.1	74.9	40.00	56.6	10.3	3702	73.7	2.04	6.04	30.3	9.9	32.6	(21.7	29.7	20.7	4 • 1 • 6	7.0	05.2	27.5	14.4	54.617	7.0
~				•	٠	•	2.36	•	•		ب د		2	-1.52	.I.7 H	x o	•		~	4.	5 (1	E	٠.	٠.	ç	5 7	`	٠.	•	`. •	7	~	٦.	: -:	0	ج ج			٠. ٥	٠,٠	2	-:	70		•	٠,	م ہ	ن ۲	0	- 69	ں بند	7.0	73
-13 6	· • • · · · · · · · · · · · · · · · · ·	1		•	٦.	٠. د د	14.07	٥.	9	~	٠,0	عه		0.	~ (x o	٦,	_	٦,	٠,	2.0	9	1	ا تم	- 1	` -	. 5	-	4 (, «	•	4	ې د	1.66	0.1	, r	3 (ű.	ء, د	0 4°	60.	٠,	•	~	9	'n	? :		~	2.	* .	1 20 10 20 10	2.2
	, - •) (C	5	د • ۲۰۰	2	٥,٠ ٠	200	5	,	٠,	, ,		•		\$.	; ;	,	*	•	÷.	; ;		3	÷.	Ď.	Ďď		æ,	ه فع	o ec		æ.	ມໍ a	œ	e e	9 4	æ	٠,	. a	•	ď	د د	ء ،	۵	2	æ.	r. u	ໍ້າ	æ	e e	۰ °		~
,	,	· .	u	_	,	e (, u	.7	· ·	~ .	·	ø	~	۲.	⊶ ,	ro		_	-	ır (.	. ~	~	ır.	m.,	~ o		S	m ,	~ •		w . '.	~ -	- 0	~ 1	r. e		o 1	~ u	. **		o-1	- 4	. 61		c ·	~ u		_	0 1	~ u	רמ	
		-	.*	٠	•		-		_	^	· · -	۰ ۳		۸ ،	۰. ۵		r. 	٠,	4				.c	~ .	1. (r. n	: N		۷ م		•	.— И		. w	α. <i>i</i>	~ • c	د د		~ ~	4 n 4	u 		. r	· .	ur, az.	С.	~ -	- r	٠	er.	4	¬ . ∢	e e
-			,,	۳.	~	с п г	• "	~	~	m i	m. m			m	m	~ ~		G 1		m (- n		.	m 1	~ .	n 11	1 m	:00:		n ~		en :	m c	n m	5 . (~ ~		ea e		, m		er. c	20	er.	m	~	en e	r. en	٠.		en a	7 .7	
			-	1. 1.7	343.3	2000	700	4.0.1	174.11	321.00	200053	53.10	704.50	245.03	04,000	679.41	555.80	234.69	619.37	410.42	52.120	322.63	68.506	563.16	065. 7E	241.02	271.56	727.12	215.56	40.00	882,76	438.08	973.26	94.46	708.78	341.85	723.73	380.98	143.34 725.40	415,78	111.89	F28.34	263.13	94.40	745.37	6F6.91	216.61	53.65	429.59	4.79	043,36	19564,93	30.
																																																				47396.10	
	•		_	*	-	v :		٠,٠		Ξ:	73		3	ξ.	٠,	3 4	3 2		ر م	0 (<u>ر</u> د	. 2	٥	σ.	Į (20	. ?	5	~ :	7 5	1 4°.	2	á	40	2	23		2	\$ 6	200	9	α.	: N	. 3	2	Ç. (C 1	23	7.5	5	9.	26.180	
	٠,	• .	7	1	~	4		;	ċ	ż.	٠.	ç	ģ	6.0	و و	• 0	• •	12	ة ٥	٠ د	. ^	5	D	٠,	÷ ;	, 6	ġ.	,	ę.	. d	m	٠ <u>.</u>	 L 3		79.	9 5	7.5	7		8.	7.	r i	. נ	77	77.	ź,	•		7.	2	ž.	275-731	
0	, . , .	 	32,5	331	33.7		* ;	37.	ु	42.4	6 1 J	50	523				£ 43	067	707	71,	9 4	757	A 1 4.	 	• . • .	970	027		123.	219.	767	315.	363	4 0	507	ָרְנְלְּלְ	553	300	7.57	643	P 9 1 .		03.7	D 3.3	131	179	,,,,	323.	7	9	, . , .	0.10111	11.

		r		
	-241,04	-228.64	-251.40	
	6 40,74	641.90	745.24	
	T. J.	+94-1	7	
	4.4.	Ξ.	\$ (• I	
		ે ં કુ	41.00.1	
` •		2.5	÷	
	۱, 7	12 41 57	,	
	_	, 	,T	
	16.0 C • L •	1. 27.6 . 2	6, 100 1	
	•	4117.4.3.1	404243	
		9 9 . 6 6	0.10.0	
	22.19	34	1 275.6.51	
		-:	;	

TEST MAR F32 ONCRET SIDEM [JKT CAN-110 Cape Canavisal Affafia 1307z 7 Aug. 1284

ROCK 3 A-91

																								1															1				
64.7		650.	* U. 2	• 003	• 00.5	• 001	*00.	*00.	• 001	2000	- 005	.002	- 005	200	.001	200.	-005	100	• 001	• 003	400.	.002	900•	010	010.	.005	.003	•00•	600	600	•000•	• 015	\$13	•003	. 017	.015	600•	• (1)3	•000	100.	.015	.014	6 (7.
ر د د	á	241.145	293.39	204. KR	508.00	235.73	207.00	300.005	301.23	302,37	303.24	303.57	306.86	307.2H	308.84	304.76	300.03	300.49	111.20	312.07	313.63	315,57	317,39	110.16	320.73	321.66	322,55	323,31	323.07	324.56	325.13	327.6A	320.48	356.20	324. F7	353.06	321.63	318. 6	315.58	312.64	06.066	000.000	00000
34 d 34 d	, . 2 7	3.7	η, η, η,	6.30	و و رو	6.77	7.03	7.97	9.16	8.88	66.6	11.34	12,40	12.87	13,32	15.53	17,36	17.27	16.65	19.17	23.24	26.81	28,22	<0.33	29.00	96.67	31.77	35,39	38.31	43.44	47.74	51.91	55.03	57.4R	50.5A	13.70	57.25	71.09	74.76	79.20	d5.5A	34.29	•
ALISTA	6 k/	Shot tot	61.1614	f .619	56.1435		42.3561		30.4713						12.0104		9.0373	7.6169	6.7152	5.8098	5.00.79	4.3139	3.7255	3.2234	2.7967	2.4389	2.1291	1.8615	1.6295	1.4279	1.2519	1.0847	0/47.	. 6530	.7584	9699•	956.	.5335	.4756	.4277	0665.666	6650.666	-
PRESS	\;	0000 *630	44.7593	6264.25	36.3541	31,1392	26.4504	22,9055	19.7078	11.9755	14.6377	12,6293	10.001	9.4334	6.1761	7.0957	6.1584	1.3437	4.6415	4.0380	3.5155	3,0661	2.6784	2.3433	2.0532	1. 9009	1.5809	1.38R7	1.2206	1.0735	.0445	. A 320	. 7344	.6473	.5702	. 5016	3044.	.3865	.33PC	.2949		3	000,000
CM aT	- - 2	1.49	17.1	1.47	1.46	47	4	52	54	56	1.56	09	1.17	1.68	69	72	78	F. F.3	- A B P	1 8 7 •	-1.05		~		•	•	-1.41	-1.56	-1.73	-1.91	-2.36	-2.64	-2.20	-2.27	12.9h	-3.10	-2.99	-2.45	-3.93	-4.53		•	Ξ
d	•	713.45	213,29	215.76	217.62	216.02	214.45	223.63	225.49	227.32	226.64	220,14	231.(5	234.76	237,16	230.47	237.40	23+.15	240.FO	247.14	244.56	247.61	250.47	25 3.2F	255.76	25.735	256.68	259,90	260.092	261,96	262.83	266.9E	269.91	264.56	•	60.	٠, ۲	5.3		43.		3	30, 356
		17	4	-	<u>.</u>	<u>د</u> -4	7. 4	??	₹?	53	53	Ç	25	Ę	92	\$2	%	27	ŗ	3.5	35	36	K.	37	¢,	£ 3	45	51	R.	i.	r.	4.	33	32	3	43	53	5.3	Ç	74	4	¢	7
CIO.		•	<u>.</u>	<i>7</i>	7.7.4	153	•	•	.n +	ď	4.3	•	3	Ç÷	¥.	ç	č	63	*	7	Œ	ę	ç,	7.	, 1	Ľ	£.	7	۲2	ĥ	÷	<u>ر</u> م	6.1	131	¥07	÷	23	Ť.	40	á	49	ď	,
ALT	E	20005	21000	22606	23000	76036	25000	74,337	27000	74030	2967	30000	31630	32636	33000	34000	35000	36036	37000	34000	39000	~COP+			*	3044	45000	10044	47000	C00 #4	90064	2.000.4	30316	52030	£3000	F 4 0 3 9	* * OLT	56030	16372	34000	10064	10000	75004
																							A	-9	92								•							-			-

MAXINUP ALTITUDE AUGUS GFORM

294.01 294.01 295.91 295.91 293.60 297-77 299-67 300-04 300-04 301-03 301-28 241.12 291.38 292.34 296.31 296.64 296.55 296.70 302.37 302.37 106.73 302,16 203.13 107.2P 106.01 1000 196.7 103 .4 103 .4 302. 03. 1.22 1.0 5 494,4944 92,2144 86,3245 94,6576 DENSITY G/MJ 1.6363 4979 650 44.2005 44. 41.49 12256 1250 12756 33000 33256 33500 4 2500c - 2500c 5 2525c 1555 1756 1750

0000

200

499

7 T

MLK.L	

1,2,**4,5,5**,2,2,4,2,3,1,1,5,1

	· ·	٤.	• J. 5	• 013	cle.	270.	, 004	£ 30.	•016	.017	.017	. 017	477.	. 015	.016	.015	.013	.011	800.	900•	400.	. 0.2	• 003	. JOB	•000	.011	8	890.	.007	-007		5	3	• 014	. 018	.017	.018	.018	.019	6	•110
	•		`.	4	3.0	٠.٧	27.0	4.2	325.47	75.1		76.5	54.4	24.2	٤.٦	23.0	23.4	23.1	22.4	21.6	6	20.1	19.4	18.5	17.A	17.0	16.3	15.5	14.9	314.12	13.3	12.6	-	000	6.0	•	•	ò	•	6.6	66.066
;			•	0.	٠.	6.	ئ	3	7		•	•	Ŧ,	3.	3	4.7	4.4	'n	.2	7.2	8.2	3	9.8	0.0	2.2	3.2	:	4:7	9.0	77,53	8.3	9.5	3	5.6	••	ς, σ	7.8	:	2.2	4.2	4.5
	٠. (, , , , ,	ı.	•	V	***	7	JE 34.	C	4477	~	50 7 L.	(C)	12	9069*	96490	3	e	~	o	30	56	*	•	~	0	∞	47	•	.44 AS	177	.4227	. 4	6.0	o-	66.6	66.6	66.6	56.6	66.0	66.5
•	-	-	5		.7119	Ĭ.	.0555	~	. 1773	.7.	7 2 2 4 4	5765	. 5522	. 5346	.5179	.501h	1 36 4.	.4703	.4553	. 4400	.4266	.4129	.3995	.3865	.3738	.3615	.3496	.3360	.3267	.3158	. 3052	. 2949	~	6.60	6600 6666	000	60.66	60.6	6.06	66.66	6.0
ì	7	.,•	14.4	J. 5. 7.	-2.17	-2.(:4	-2,13	-7.27	-2.49	->. A.	-	•	-4,03		-3,11			•	2.9	٠.	-3.13	\sim	3.2	4.	5	3.6		3,9	0	•	-4.33	•	-4.93	0°0	00.0	0.00	0.00	0.00	c	00.0	2
	•	14:11	4.054	260.11	4 4	767.47	4.	4	63		``	3	4.[4	90 79	261.28	5.19	14.042	25G. f.	5F.5	57.2	9.9	1.46	33.E	5.0	51.1	0.5	4.B.A	47.0	* . *	265.32	14.1	13.0	11.9	6.00	•	5.66	•	0.66	0.00	00.666	ው
		æ.	, ,	4;	4	. . (*	Ŧ.	33	۲,		1	4,	42	*	5	47	7 5	2	21	53	56	ŗ	ţ		25	16	50	49	47	4	**	45	†	. 4	43	ď.	20	ţ	Ç,	4.	\$
			57.	133	133	135	136	141	125	115	113	201	103	0.0	56	,	47	.	33	₹	27	12	, c	42	37	9¢	35	*	34	43	T 6	Œ	*	70	7.3	ž	57	55	25	r F	3.
	3 30	^	7	00015	7.1240	21500	41730	25000	52255	22500	127-0	39006	53256	46483	53756	1604.	54256	00343	54726	55000	55250	55500	15756	55000	5625C	c	55750	37000	17250	3.75 JU	2	Ţ.	S.	5 P 50 L	24750	39000	59250	59500	2975C	10101	40034
																															Α-	.9	5								

MAXIMJM ALTITUDE 53914 GEOMM

۲ ، ۲ ،	AFLOTE	7.0
a - u .	142 1742 47	7 605 1
TEST AL	CAUR CAD	13337

	_										
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Ç	ž	_	~	ريادل	744	68/9	, c +	KTK	1960	
March Marc	; ;	1	:	-	4	7. 277		- 4		200	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	0000	r a		•		. 55.2					
10,000 1,0	30000	. 66	· (4)	,	•	996	٠,	٠.		006	
7.5.0.0	90000	ځ	Ç		Ť	9.513	_	0	6		
1,000 1,00	7.35.00	~	7.	4	4	7, 141	٠.		70.	400.	
75.0.1 76 2.5 216.64 -46 36.41 69.7454 17.71 572.01 750.01 172 30.216.74 -46 36.41 61.62 62.66 62.20 176.02 176.01 172 30.216.74 -46 36.41 61.62 62.66 62.20 176.01 172 30.216.74 -47 31.115.22 65.930 26.30 574.30 774.30 774.00 173 30.216.42 -47 31.437 56.5930 26.30 574.30 774.30 774.00 173 30.216.42 -47 31.437 56.5930 26.30 574.30 774.30 774.00 173 30.216.42 -47 31.437 56.5930 26.30 574.30 774.30 774.00 173 30.216.42 -47 31.437 56.5930 26.30 574.30 774.30 774.00 173 30.216.42 -47 31.437 56.5930 26.30 574.62 776.44 65.30 774.30 77	71006	^1	77	•	*	4.966	α.	7. F	71.	400.	
73000 13 30 210-34	76021	2,5	Ę.	Ĭ.	4	2.861	~	7.7	72.	*00*	
76000 13 30 217.5546 31.552 5685 15.35 573.61 75.00 175.00 13 30 217.5546 31.552 56.85 15.35 17.55.61 75.00 175.00 173 30 217.5546 31.552 56.85 15.393 22.30 575.34 770.01 13.3 30 217.5546 31.352 56.853 12.307 77.500 13.3 30 217.5546 31.307 75.00 25.30 575.36 775.30 175.00 13.3 30 217.5746 20.3462 66.2732 23.25 375.36 77.57 170.01 13.3 32.86346 21.3307 75.00 22.25 375.36 17.57 17	73000	Ţ	۶.۶	۲.	*	J. 862	a,	6.0	72.	. 002	
750.0	74000	er T	Ĵ	•	4	8.961	e.	6.3	73.	900.	
70000 173 30 214.47 -47 33.437 20.5330 20.537 37.437 70000 173 30 214.47 -47 33.4309 53.8516 20.45 47.737 70.000 150 150 150 150 150 150 150 150 150	75000	۲۲ :	3	-	٠.	7.154	•	٠ د	4.	800	
77001 101 30 218.67 -47 30.7644 51.810 20.255 576.36 770.01 101 30 218.67 -47 30.7644 51.8107 22.25 576.36 770.01 101 30 218.67 -47 30.7644 51.8107 22.25 576.36 770.01 101 31 218.67 -47 30.7644 51.8107 22.25 576.36 770.01 101 31 218.70 -47 30.7644 51.8102 23.25 576.36 770.01 101 31 218.70 -47 30.7644 51.8102 23.25 576.37 770.01 101 31 218.70 -41 227.70 -51 22.810 31.127 25.25 576.77 7 101 25.410 31.127 25.25 576.77 7 101 25.410 31.127 25.25 576.77 7 101 20.01 13.4105 30.11 58.26 59.24 59.24 10.01 10.01 13.410 31.87 58.24 59.24 10.01 10.01 13.4 5.25.30 -51 2.810 31.127 25.25 576.77 7 10.01 10.0	15000	13	30	.	4	. 43	ů.	۳. ک	۴,	30.	
70000 101 31 218.73 -47 30.7664 69609 25.53 575.16 10000 101 31 218.73 -48 29.3462 4.7362 22.53 575.16 10000 101 31 218.73 -48 29.3462 4.7362 22.53 575.16 10000 101 31 218.73 -48 29.3462 4.7362 22.53 575.16 10000 101	77006	-	30	_	•	3.800	<u> </u>	֓֞֞֜֜֜֜֜֞֜֜֜֓֓֓֓֓֓֜֜֜֜֓֓֓֓֓֓֓֜֜֜֜֓֓֓֓֜֜֜֓֓֓֓֡֓֡֓֜֝֡֓֡֓֡֓֡֡֡֡	١	£00°	
NOTE NOTE	00067	٠. دن.	<u>ب</u>	•	•	2.244	7,		÷ ;	100	
P. P. P. P. P. P. P. P.	20067	7.7	₹;		•	367.0	~ '		9;	*00*	
Paul		• 6	7 6	• •	•		~ E	היי		0 0	
### ### ### ### ### ### ### ### ### ##	30076) u 1. 1	n c	. 0		704		1 . C		000	
######################################	2007	. 76	7 6			5.484			. 4		
95000 45 42 224.95 -51 23.2256 36.1867 25.26 58.26 58.27 48.0000 44 43 224.95 -53 22.1814 34.419 28.24 58.24 58.24 58.24 48.0000 44 43 224.95 -53 21.1814 34.419 28.24 58.24 58.24 48.0000 44 42.224.93 -55 19.3357 29.829 31.87 56.827 49.0000 44 225.89 -55 17.6535 27.89 31.87 56.87 69.01 58.64 51.27 69.01 44 227.39 -55 17.6535 27.89 69.01 58.64 51.27 69.01 44 227.39 -55 17.6535 27.89 69.01 58.64 51.27 69.01 44 227.39 -55 17.6535 27.49 41.00 57 69.65 69.01 59.00 59.01 59.00	00048	1	5 3	,		4 9 9 5	-	,,,	ç	400	
## 4 224.33	95000	- 47	1 6		2	1 225	: -	, ,		602	
### ### ## ## ## ## ## ### ### ### ###	16100		. "	4		2.181				005	
4 225.42 - 54 20.2391 31.2792 32.24	Œ.	Ť	*	2	4	1.187		7.0	4	100	
49000 93 44 225.8955 19.3357 29.8209 31.87 585.87 6 90.000 93 44 227.8955 16.825 27.834 31.09 596.15 91.00 91.00 93 44 227.8955 16.825 27.834 31.09 596.15 93.00 93 92.00 94 227.8956 16.825 24.6507 29.42 58.96 93.90	7	بر م	7	2	140	6.239	~	2.2	A.	001	Ì
910001 33 44 226.88 55 17.6535 27.1076 30.11 596.88 <	3	3.3	\$	25.		9.335	~	1.8	a.	100.	
910.00 9.3 44 226.8855 17.6535 27.1076 36.11 586.80 93.00.00 44 227.8956 16.8706 25.8876 26.96 587.46 93.00.00 44 227.8956 16.8706 25.8876 26.96 587.46 94.00.00 44 227.8956 16.4725 23.5195 30.60 588.63 94.00.00 77 45 228.7759 12.8729 22.4725 32.33 879.03 94.00.00 77 45 228.7759 12.8729 22.4725 32.33 879.03 94.00.00 97 45 228.7759 12.8729 20.4714 35.37 879.03 94.00.00 90 49 228.6761 12.30.76 18.6979 37.87 599.63 94.00 90 49 228.5661 12.30.76 18.6979 37.87 599.63 94.00 90 49 228.5767 10.7749 18.6979 37.87 599.63 94.00 90 49 228.5767 10.7749 18.6979 37.87 599.63 94.00 90 50.25.96 94.00 90 50.25.96 94.00 90 50.25.96 94.00 90 50.25.96 94.00 90 50.25.96 94.00 90 50.23.8767 10.7749 18.6979 37.87 599.63 94.00 90 50.25.96 94.00 90 94.22.97 7.749 18.6979 37.87 599.74 94.00 90 50.25.96 94.00	•	33	*	è	.t	8.474	•	1.0	96	.001	
92.00c	91630	Œ.	4 4	26.	.5	7.653	7	٠, د	86.	100	:
93000 95 44 227.8856 16.1245 24.6507 29.42 588.10 946000 07 45 228.7758 14.0845 22.4525 30.60 588.53 95000 07 45 228.7758 14.0845 22.4525 30.60 588.53 95000 07 45 228.7758 14.0845 22.4525 30.60 90 49 229.0759 12.8729 19.576 36.66 589.63 94000 00 49 229.2963 11.7675 17.8543 38.91 589.63 95000 00 49 229.2963 11.7675 17.8543 38.91 589.63 95000 00 49 229.2963 11.7675 17.8543 38.91 589.63 95000 00 49 229.2963 11.2431 17.0184 39.96 591.29 95000 00 49 229.5765 11.2431 17.0184 39.96 591.29 95000 00 49 229.5767 10.7619 16.2065 40.99 95000 00 51 233.3467 10.7619 12.1552 42.24 599.74 95000 00 51 234.7768 9.4279 13.9902 42.24 599.74 95000 00 51 235.5767 10.7619 12.1552 42.24 599.74 11000 00 51 236.5771 7.5876 11.0931 46.52 601.81 11000 00 52 237.6071 7.5876 11.0931 46.52 601.81 11000 00 52 237.6071 7.5876 10.1675 57.04 600.70 11000 00 52 237.6071 7.5876 10.092 57.24 600.81 13000 00 52 237.6071 7.5876 10.506 6 49.27 600.14 13000 00 52 237.6071 7.5876 10.506 57.24 600.81 13000 00 52 51 237.7571 7.5876 10.506 57.24 600.81 13000 00 52 51 237.7571 7.5876 10.506 57.24 600.81 13000 00 52 51 237.7571 7.5876 10.506 57.24 600.81 13000 00 52 51 237.7571 7.5876 10.506 57.24 600.81 13000 00 52 51 237.7571 7.5872 57.04 600.81 13000 00 52 51 237.7571 7.5872 57.04 600.81 13000 00 52 51 237.7571 7.5872 57.04 600.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.04 600.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 237.8071 7.5872 57.24 500.81 13000 00 52 51 527.8071 7.5872 57.24 500.81 13000 00 52 51 527.8071 7.5872 57.24 500.81 13000 00 52 51 527.8071 7.5872 57.24 500.81 13000 00 52 51 527.8071 7.5872 7.5872 57.27 500.81 13000 00 52 51 52 50.80 50.80 50.80 50.	36756	4	4.	۲.	ů	6.870	~	6.9	87.	• 000	
94600	19066	9 5	4	2	5	6.124	•		68.	. 002	İ
95000 97 45 228.66056 14.7334 22.4525 32.33 869.03 950.00 97 45 228.7758 14.0845 21.498 33.90 893.24 980.00 90 47 229.0759 12.8729 19.5776 36.65 96.65 96.65 90 47 229.0759 12.8729 19.5776 36.65 96.65 90 90.00 90 47 229.2961 12.3076 18.6999 37.83 589.91 90.00 90 49 229.2961 12.3076 18.6999 37.83 589.91 90.00 90 90.00 90 51 231.3467 10.7619 16.2065 40.99 542.79 90.90 90.25 90.94 90.99 542.80 90.00 90 90.	24004	Ę	44	2.	r.	5.412	5	9.0	AB.	• 602	
95000 95 228.77 -58 14.0845 21.4488 33.90 589.24 97000 90 47 228.22 -61 12.3076 18.6999 37.87 589.63 9000 90 47 229.29 -61 12.3076 18.6999 37.87 589.63 9000 90 49 229.29 -61 12.3076 18.6999 37.87 589.63 9000 90 49 229.29 -61 12.3076 18.6999 37.87 589.63 9000 90 49 229.29 -67 11.2631 17.0184 39.96 590.26 90 51 231.34 -67 11.2631 17.0184 39.96 590.26 90 51 231.34 -67 10.6266 14.67 594.11 590.26 41.67 594.11 590.26 41.67 594.11 590.26 41.67 594.11 590.26 42.67 594.27 594.27 594.27 594.27	95000	L 0	4.5	å	ŝ	4.733	٠.	2.3	ě	. Où2	
770uc 50 45 228.0259 13.4648 20.4914 35.37 589.43 580.00 50 47 229.0759 12.8729 19.5776 36.65 589.63 50.00 50 49 229.0761 12.8729 19.5776 36.65 589.63 50.00 50 49 229.5661 12.872 17.0184 39.96 591.59 50.00 50 51 231.3467 10.7619 16.2065 40.99 562.54 50.00 51 231.3467 10.7619 16.2065 40.99 562.54 50.00 51 231.3467 10.7619 16.2065 40.99 562.54 50.00 51 231.3467 10.7619 16.2065 40.99 562.54 50.00 50 51 231.3467 10.7619 16.2065 40.99 562.54 50.00 50 51 231.3467 10.7619 16.729 13.9902 42.24 594.70 50.00 50 51 231.3568 96.279 13.9902 42.24 594.67 594.67 596.60 50 50 50 50 50 50 50 50 50 50 50 50 50	3400V	5	4	ě	r.	4.084	٠.	3.9	33	• 005	:
90000 90 47 229.0759 12.8729 19.5776 36.65 589.63 990000 90 49 229.2961 12.8076 18.8949 37.87 589.63 990000 90 49 229.2961 11.2.8076 18.8949 37.87 589.69 91.000 90 49 230.3665 11.2.8076 18.8949 37.87 590.99 91.000 90 50.29.2967 10.7619 16.2065 40.99 5.62.54 90.000 90 51 232.5767 10.7619 16.2065 40.99 5.62.54 90.000 90 51 232.5767 10.7619 16.6733 42.29 41.67 594.11 95.000 90 90 51 234.7768 99.4279 13.9992 42.24 594.11 95.000 90 90 50.25167 10.7619 12.1592 42.24 594.11 10.000 90 90 50.251 12.1592 42.24 593.89 10.000 90 90 51 237.7570 7.2654 10.091 46.57 40.000 90 90 51 237.7570 7.2654 10.091 46.57 40.000 90 90 51 237.7570 7.2654 10.091 46.57 46.000 90 90 51 237.7570 7.2654 10.091 46.57 46.000 90 90 51 237.7570 7.2654 10.091 90 57.24 40.000 90 90 51 237.7570 7.2654 10.091 90 57.24 40.000 90 90 51 237.7570 7.2654 10.091 90 57.24 40.000 90 90 51 237.7081 5.000 90 57.24 40.000 90 90 51 237.7081 5.000 90 90 57.24 40.000 90 90 51 237.7081 5.000 90 90 57.24 40.000 90 90 90 90 90 90 90 90 90 90 90 90	9700C	ۍ د	, O	œ.	٠ د ج	3.464	7		69	.002	
90000 30 44 229.29 -61 12:3076 18:0999 37:87 588:91 500000 30 49 229.59 -63 11.7675 17:086 39:91 580:24 50.0000 30 50 230:34 -67 10:7619 16:2065 40:99 50.256 50.0000 30 51 231:34 -67 10:7619 16:206 40:99 50.256 50.0000 30 51 233:35 -67 10:7619 16:206 40:99 50.256 50.0000 30 51 233:35 -67 10:7619 16:206 40:99 50.256 50.0000 30 51 235:47 -66 99:566 16:6753 42:14 59:26 50.000 30 51 235:47 -66 99:560 16:6753 42:14 50.2576 10:000 30 50 235:47 -66 99:200 12:2159 42:24 507:40 50.0000 30 50 235:47 -67 90:201 12:1595 42:24 507:40 50.0000 30 50 235:50 -71 7:5856 11:093 46:57 601:81 11:000 30 51 237:36 -77 6:4051 11:093 46:57 601:81 11:000 30 51 237:36 -77 6:4051 11:093 46:57 601:81 11:000 30 51 237:36 -77 6:363 03:235 57:06 600:81 11:000 30 51 237:36 -87 6:130 13:000 30 51 237:36 -87 6:140 13:000 30 51 237:36 -87 6:140 13:1	00000	9	~		•	2.872		٠ د	2	200	
10.000	J	>	T	5.0	e ·	706.2	٠,٠		6	200	i
03600	റ ः	⊃ . • :	.		Ę	10701	.	ر د	ġ.	100	
03600	, c		3 .	· ~	•	741	י כ			000	
04606 90 51 233.8567 9.8566 14.6733 42.14 595.74 10.050 90 11 234.7768 9.4279 13.9902 42.24 594.02 10.0500 90 11 235.4168 9.4279 13.9902 42.24 594.02 10.0500 90 11 235.4268 9.4279 13.9902 42.24 594.02 10.0500 90 235.4268 9.4279 13.935.41 42.21 592.44 600.83 11.000 90 11 237.6271 7.954.6 11.091 46.52 601.81 11.000 90 11 237.5571 7.5856 11.091 46.52 601.81 11.000 90 11 237.3572 60.83 9.72 59.36 601.81 11.000 90 11 237.3678 6.131 8.9725 57.64 600.70 90 90 51 237.3678 6.131 8.9725 57.64 600.14 11.000 90 51 237.6081 5.661 8.5940 57.24 600.14 11.000 90 51 237.6081 5.661 8.2199 57.25 67.27 600.14 11.000 90 51 237.6081 5.661 8.2199 57.22 660.14 11.000 90 51 237.6081 5.661 8.2199 57.22 660.14 11.000 90 51 237.6081 5.661 8.2199 57.22 660.14 11.000 90 51 237.6081 5.661 8.2199 57.22 660.14 11.000 90 51 237.6081 5.600.17 7.8562 56.87 601.17 9.600.10 90 51 237.6081 5.600.17 7.8562 56.87 601.10 90 90 90 90 90 90 90 90 90 90 90 90 90)	2 7	: -		ک ران ا	0.204	1.4		. 4	100	
05000 00 11 234.77 -68 9.4279 13.9902 42.24 F0A.02 0.05000 00 11 234.77 -68 9.4279 13.9902 42.24 F0A.02 0.05000 00 11 235.41 -64 9.6391 12.7354 42.4F 592.87 90.74 0.0000 67 49 235.69 -69 9.6391 12.7354 42.4F 592.87 9.74 0.0000 67 49 22.77 7.9207 11.6126 44.94 600.83 10.000 67 49 25.87 600.83 -70 7.2654 10.0031 46.52 601.81 11.000 67 50 237.85 -70 7.2654 10.0006 49.24 601.81 11.000 67 50 237.85 -70 7.2654 10.0006 49.24 601.81 11.000 67 50 23 601.81 6.000 67 67 67 67 67 67 67 67 67 67 67 67 67	,	9	: Z			200		•		100	
05000 30 51 235.f1 -68 8.6391 12.7354 42.47 59.8891 12.7354 42.47 59.88.89 12.7354 42.47 59.88.89 12.7354 42.47 59.88.89 12.715 12.1592 43.27 59.88.89 10.000 87 69.89 60.89 12.715 12.1592 43.27 59.88 60.89 10.000 87 60.89) T	2 3	• ~	3		427	2 0	,,,	9 6	000	
0700	• •	5		,		024		``	. 20	100.	
CGCOL	• >	7	3	ć	•	690		2.4	, u	100.	
0000C 87 49 287.62 -71 7.9207 11.6126 44.94 600.53 11.000 41 49 288.23 -71 7.5856 11.0931 46.52 601.30 11.000 44 50 238.63 -70 7.6569 11.0931 46.52 601.81 11.000 44 50 238.63 -70 7.669 40.600.66 49.24 601.81 12.000 49 51 235.50 -74 6.4651 9.7495 54.24 601.81 11.000 42 41 237.35 -774 6.4651 9.7495 54.27 401.22 11.000 42 41 237.35 -774 6.4651 8.9723 57.04 600.70 11.000 93 51 237.60 -81 5.6641 8.2199 57.24 600.14 11.000 93 51 237.60 -81 5.6641 8.2199 57.24 600.14 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.14 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 237.60 -81 5.6641 7.8540 57.27 600.11 11.000 93 51 51 51 51 51 51 51 51 51 51 51 51 51	_	i. Cr	3	35.	٠	.271		3.2	00	200.	
10000	∍	7	C 7	37.	7	.920	÷	6.4	00	.002	
11000	_	ĭ	64	9. B	٠,	.58.	٠,	6.5	3	• 601	
12000 39 51 235.5373 6.9689 10.1646 52.30 601.66 13000 30 51 237.7574 6.6651 0.7495 54.74 661.22 159000 30 51 237.7574 6.6651 0.7495 54.74 661.22 15000 32 51 237.3676 6.131 8.9723 57.64 670.70 31 51 237.3180 5.8540 8.5940 57.24 600.14 17600 93 51 237.6081 5.6061 8.2199 57.32 600.81 1300.0 31 51 237.6082 5.3691 7.8562 56.87 601.17 19600 34 51 235.4664 5.1425 7.5062 55.27 601.06 12 10000 34 51 239.3185 4.9267 7.1715 54.92 67.24 67.26 67.27	-	T 3	20	36.	۲.	.265	•	9.2	97	2000	
13000 30 51 24-1674 6.6651 9.7495 54.74 661.22 15000 92 51 237.7574 6.3633 9.3555 56.77 600.70 92 51 237.3678 6.3634 9.525 57.66 67.02 92 15 237.3180 5.8560 8.5960 57.24 600.14 9.17000 93 51 237.6081 5.6061 8.2199 57.29 600.14 9.15000 93 51 237.6082 5.3601 7.8562 56.87 601.17 9600 94 53 235.8682 5.3601 7.8562 56.87 601.17 9600 95 55.27 601.06	-	<i>ታ</i> ጥ	5.3	3.	۲.	9	7	2.3	01.	.000	
1400c 92 11 237.7577 6.3433 9.5735 56.27 500.70 6.3500 92 11 237.3678 6.1131 8.9725 57.66 670.20 6.15000 92 51 237.3181 5.6061 8.2199 57.29 67.64 600.14 6.1500c 93 51 237.6081 5.6061 8.2199 57.32 670.81 670.00 93 51 237.6082 5.3601 7.8562 56.87 601.17 61000 94 51 236.8784 5.1425 7.5062 55.27 671.06 6.16000 7.5 51 230.2185 4.9267 7.1715 54.92 67.24 671.06	~ .	<u>ن</u> م	7	÷ ;	٠,	5. CR	Ţ,	4.7	ا ب	2000	
15000 32 11 237.3%7% 5.1131 8.9723 57.6% F(0.2% 6.0%) 15000 32 51 237.3180 5.8%40 8.2%40 57.24 600.14 . 17000 93 51 237.6081 5.6%41 8.2%99 57.3% 600.81 . 13000 33 51 237.0082 5.3%91 7.85%2 56.87 601.17 . 19000 34 53 235.6%84 5.1425 7.5%62 56.87 601.0% . 20000 ,, 53 236.0%85 4.9767 7.1715 54.92 672.4% .	-	`	- ·	-	٠,	10 to 10 to		•	6	200	
170u0 93 51 237.65	→ -	2 6	-4 ·	÷.	•	.113	· .) ; - -	ė	200	
11000 93 31 231.00	٠,	7 6	7.	•			J.	":	5	000	
19000 74 53 23F.AFF4 5.1425 7.5UAZ 55.27 ANI.0F	-	, c	. .	:	ž d	100	· •	•		3.0	
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	٠,		- :		•			. ^	-	100.	
DESCRIPTION OF THE CONTRACT OF THE PROPERTY OF	~ (•		•	L¢	74.70					
		•	r	,	۲	•	7	•		٤	

e side, sesse			1	:		ROCE	3	. प्राचासाक्षा	1		i	!	ļ †			-		
			1	,	!	:		,				ì	,					
			:	:	1	;				:	!	:	!	į	ŧ			* (***)
		,		1 1 1			•	•		r r	i	:		;	1		ı	
			!	:						İ	!		!	į	.			
			ļ	:											1		İ	
		,		:								!			:		1	
				1				!				!			!			
			1			!							1					
			•			!				1								
- rope a a remojoj					ļ	:	İ	;		:							f	
			ļ		1	:		!		!			1				: .	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						: •												• ••
0.000 0.000						;	i			1	:	!						
			!		:	:	•	!!!		i		1					i	
7 P 10 C C C C C C C C C C C C C C C C C C					i		!	1			i							
7 N 1 N 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2					i			i				1	!	1	į	1	!	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			!		:	3	1 1	:		; •		· •	:		. 1		,	
, 4 4 4 1 7 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ŦŦ		!		1	•	1	•		!	:							
	51 SECHFT										·							
2	199661																	
1001101100 1001101100	LTTTUNE																	
	ld Private																	
**************************************) x v	.*					4-98											1
€ L L	، ن	ن ٥	Ų	J	J		J	J	$\overline{}$	J	J	ن ٔ	ب	ر	•			1

THE COURSE SERVICE SERVICES SE

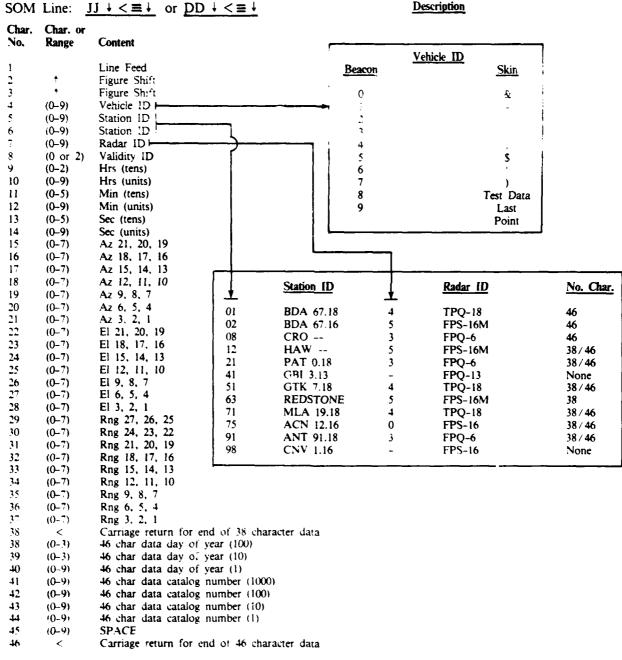
IRIG STANDARDS FOR RANGE METEOROLOGICAL DATA REDUCTION PART 2 ROCKETSONDE(U) RANGE COMMANDERS COUNCIL MHITE SANDS MISSILE RANGE AM INTER-R. DEC 85 IRIG-STANDARD-352-85-5 F/G 4/1 AD-A163 634 2/5 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL REPRESENCE OF CLANDIARDS 1963 A

ATTACHMENT 8 BREAKDOWN OF 46-CHARACTER DATA

DATA FORMAT COMPUTER OCTAL SEMI-RAW TTY OUTPUT (38/46 CHARACTER)



EOM Line: ≥ 1/ +

The information contained in this publication is proprietary to Pan Am World Services Inc. It may not be copied or reproduced except for reproduction by the U.S. Government for U.S. Government purposes without the express permission of Pan Am.

ATTACHMENT 9 DESCRIPTION OF TEMPERATURE CORRECTION TECHNIQUE

(This attachment was extracted from Federal Meteorological Handbook 10)

Description of corrections applied to observed Rocketsonde Temperature

Temperature Corrections for Datasonde Instrument

The Datasonde instrument employes a 10-mil bead thermistor, mounted on a loop of silverized mylar, commonly referred to as the loop mount. The general procedures for applying temperature corrections to film mounted thermistors, as described by Henry (Bibliography Ref. 3) have been expanded and adapted to the specific configuration of the loop mounted thermistor as used in the Datasonde instrument. This work has been done by Krumins and Lyons (Bibliography Ref. 4), and others, and has been adopted as the U.S. standard correction technique. The corrections developed for application to the loop mounted thermistor include acceptable values for incoming radiation heating corrections.

The true atmospheric temperature, T_{atm}, is equal to the observed thermistor temperature, T_t, plus certain correction values described by the following terms: (some rearrangement of the elements of each term has been made from the similar terms used for the Arcasonde instrument and the elements for the incoming radiation corrections have been added to the fourth term.):

Aerodynamic heating term,

$$K_1 = - \left[\frac{A_t h_t r_t + w_f A_f h_f r_f}{A_t h_t + w_f A_f h_f} \right] \frac{V^2}{2c_p}$$

Time lag term,

$$K_2 = + \left[\frac{c_t m_t + w_f c_f m_f}{A_t h_t + w_f A_f h_f} \right] \frac{dT_t}{d_t}$$

Radiation heat loss, term,

$$K_3 = + \left[\frac{A_t \epsilon_{1t} + w_f A_f \epsilon_{1f}}{A_t h_t + w_f A_f h_f} \right] \quad \sigma T_t$$

Incoming radiation and electric heating term,

$$K_4 = - \frac{a_{st} G_{st}}{A_t h_t + w_f A_t h_f}$$

$$-\frac{w_f \alpha_{sf} G_{sf}}{A_t h_t + w_f A_f h_f} J - \left[\frac{\alpha_{st} G_{st}}{A_t h_t + w_f A_f h_f} + \frac{w_f \alpha_{sf} G_{sf}}{A_t h_t + w_f A_f h_f} \right] Alb.$$

$$- \left[\frac{\alpha_{1t} G_{1t} + w_f \alpha_{1f} G_{1f}}{A_t h_t + w_f A_f h_f} \right] \sigma T_{eff}^4 - \frac{W_t}{A_t h_t + w_f A_f h_f}$$

The four correction terms applied to the observed thermistor temperature can be simply identified in a correction expression as follows:

$$T_{atm} = T_t - (K_1(Z)V^2) + [K_2(Z)(\frac{dT_t}{d_t})] + (K_3(Z)T_t^4) - (K_4(Z))$$

The values of $K_1(Z)$, $K_2(Z)$, $K_3(Z)$ and $K_4(Z)$ are shown in table 1.b. and the values of T_t , V^2 , $\frac{dT_t}{dt}$ and T_t^4 versus altitude, (Z), are obtained from each individual sounding.

List of Symbols and Values

ソント しつくらう 公職 こうじじつ 間 のんか

The following symbols have been used in the foregoing expressions. The values of some of the constants and also several of the mount/thermistor dimensions which have been used in the computation of data for tables 1.a and 1.b are shown. Where the values differ for the flat plate and the loop mounted thermistor, the system for which the value is applicable is indicated by he letters F and L, respectively.

Symbol	Definition	Value
a	speed of sound	
Α	aerodynamic heating term	
$A_{\mathbf{f}}$	surface area of film	3.944 cm ²
A_{t}	surface area of thermistor	$2.92 \times 10^{-3} \text{ cm}^2$
Alb.	albedo	35 percent assumed
В	time lag term	
cf	specific heat of film	0.2 cal gm ⁻¹ (°K) ⁻¹
c _p	specific heat of air at constant pressure	0.24 cal gm ⁻¹ (°K) ⁻¹
C	ohmic and rf heating term	
d	diameter of bead	$2.54 \times 10^{-2} \text{ cm}$
D	long wave emission term	
$G_{\mathbf{1f}}$	area of film multiplied by a shape factor subject to long-wave (terrestrial) radiation	3.944 x 0.5 cm ⁻²
G _{lt}	area of thermistor multiplied by a shape factor subject to long-wave (terrestrial) radiation	2.923 x 10 ⁻³ x 0.5 cm ²
G_{sf}	area of film multiplied by a shape factor supplied to short-wave (solar) radiation	3.944 x 0.25 cm ²
G _{st}	area of thermistor multiplied by a shape factor subject to short-wave (solar) radiation	$5.09 \times 10^{-4} \times 0.25 \text{ cm}^2$
h _f	convective heat-transfer coefficient for film	See Bibl. 4
h _t	convective heat-transfer coefficient for thermistor	See Bibl. 4
(h _f)local	local convective heat-transfer coefficient for film	See Bibl. 4

Symbol	Definition	Value
J	solar constant	
k	conductivity of lead wires	7.4 x 10 ⁻² cal cm ⁻¹ sec ⁻¹ (°K) ⁻¹
κ_1	dynamic heating correction term	(*K)
к ₂	lag correction term	
К3	radiation loss correction term	
K ₄	radiation and electrical heating correction term	
M	Mach number	
$m_{\mathbf{f}}$	mass of film	$1.4 \times 10^{-2} \text{ gm}$
v	ventilation velocity of sensor system, m sec-1	
$w_{\mathbf{f}}$	weighting factor	See Bibl. 4
\mathbf{w}_{t}	electrical heating of thermistor due to measuring current and radio-frequency radiation	9.56 x 10 ⁻⁷ cal sec ⁻¹
x	length of lead wires	0.33 cm
Z	altitude meters	
a	absorptivity	
αlf	absorptivity of long-wave (terrestrial) radiation of film	0.1
a_{lt}	absorptivity of long-wave (terrestrial) radiation of thermistor	0.1
$\alpha_{\rm Sf}$	absorptivity of short-wave (solar) radiation of film	0.18
a_{st}	absorptivity of short-wave (solar) radiation of thermistor	0.12
ß	cross sectional area of lead wires	5.07 x 10 ⁻⁶ cm ²
εlf	emissivity of film	0.18
ε _{lt}	emissivity of thermistor	0.2
Y	angle of elevation of sun from horizontal	See Bibl. 4
μ	viscosity	

Symbol	Definition	Value
Q	density	
$e_{\mathbf{f}}$	density of film	
σ	Stefan-Boltzman constant	1.38 x 10 ⁻¹² cal cm ⁻² sec ⁻¹ (°K) ⁻⁴
m _t	mass of thermistor	See Bibl. 4
N_{ς}	Nusselt number	See Bibl. 4
P_r	Prandlt number	See Bibl. 4
^{r}f	recovery factor for film	0.85
r _t	recovery factor for thermistor	See Bibl. 4
R_d	Reynolds number based on diameter	See Bibl. 4
R_1	Reynolds number based on length	See Bibl. 4
R _s	Reynolds number based on length along the film	See Bibl. 4
S	distance along the film from stagnation point	See Bibl. 4
S _t	Stanton number	See Bibl. 4
T_{eff}	effective radiation temperature of atmosphere	See Bibl. 4
T_f	temperature of film	
T_{t}	temperature of thermistor, degrees K	
T_{atm}	temperature of atmosphere corrected, degrees K	
t	time, seconds	
$^{t}\mathbf{f}$	thickness of film	
u	local velocity	

TABLE 1

Table of values of K_1 , K_2 , K_3 , and K_4 versus altitude for the 10-mil bean thermistor using a loop mount.

Z	К1	κ_2	K ₃	K	4
	sec² ° K		1	(°)	K)
(m)	m²	(sec)	→K3	Day	Night
70 x 10 ³	4.65×10^{-4}	12.77	18.51 x 10 ⁻¹⁰	23.2	7.56
69	4.65	10.60	14.63	18.4	6.04
68	4.64	8.92	11.83	15.0	4.93
67	4.64	7.70	9.80	12.5	4.13
66	4.63	6.69	8.18	10.4	3.48
65	4.62	5.93	6.98	8.94	3.00
64	4.61	5.27	5.98	7.70	2.59
63	4.59	4.72	5.17	6.69	2.26
62	4.57	4.27	4.63	5.87	2.00
61	4.55	3.84	3.93	5.13	1.75
60	4.52	3.51	3.49	4.57	1 57
59	4.50	3.23	3.12	4.10	1.41
58	4.48	2.95	2.78	3.66	1.27
57	4.46	2.72	2.49	3.29	1.15
56	4.44	2.51	2.24	2.98	1.04
55	4.43	2.342	2.05	2.73	0.956
54	4.42	2.148	1.87	2.51	0.880
53	4.41	2.053	1.74	2.33	0.820
52	4.40	1.935	1.62	2.17	0.766
51	4.40	1.828	1.51	2.03	0.718
50	4.39	1.728	1.41	1.90	0.673
49	4.39	1.627	1.31	1,77	0.629
48	4.39	1.545	1.23	1.67	0.592
47	4.39	1.469	1.16	1.57	0.559
46	4.40	1.393	1.09	1.48	0.528
45	4.41	1.330	1.03	1.40	0.500
44	4.41	1.271	9.76 x 10 ⁻¹¹	1.33	0.476
43	4.42	1.212	9.24	1.26	0.452
42	4.42	1.160	8.79	1.20	0.430
41	4.43	1.111	8.35	1.14	0.410
40	4.43	1.065	7.95	1.09	0.392
39	4.44	1.019	7.53	1.03	0.372
38	4.44	0.978	7.18	0.986	0.355
37	4.45	0.940	6.85	0.943	0.333
36	4.45	0.903	6.52	0.897	0.323
35×10^3	4.46 x 10 ⁻⁴	0.868	6.22 x 10 ⁻¹¹	0.858	0.323
34	4.46	0.837	5.96	0.822	0.298
33	4.47	0.804	5.68	0.785	0.285
32	4.47	0.776	5.44	0.753	0.274
31	4.48	0.749	5.22	0.722	0.263
30	4.49	0.724	5.00	0.694	0.253
29	4,49	0.700	4.79	0.666	0.243
 /	****	5.700	3112	0.000	0.470

ROCK 3

TABLE 1 (Continued)

Z	κ_1	К2	К3	K	4
	sec ¹ °K		1	(°)	K)
(m)	m²	(sec)	°K³	Day	Night
28	4.50	0.677	4.60	0.640	0.235
27	4.50	0.656	4.42	0.615	0.225
2 6	4.51	0.635	4.25	0.593	0.218
25	4.52	0.616	4.09	0.572	0.210
24	4.52	0.597	3.94	0.551	0.203
23	4.52	0.580	3.81	0.533	0.197
22	4.53	0.565	3.69	0.518	0.191
21	4.54	0.550	3.58	0.502	0.185
20	4.55	0.635	3.47	0.487	0.180

$$T_{atm} = T_t - (K_1(Z)V^2) + [K_2(Z)(\frac{dT_t}{d_t})] + (K_3(Z)T_t^4) - (K_4(Z))$$

ATTACHMENT 10

SAMPLE COPY OF ROCOB DATA (SEE ATTACHMENT 5 FOR INPUT DATA)

ATTACHMENT 11 BREAKDOWN OF ROCOB CODE

ROCKETSONDE MESSAGE CODE

SECTION A - INTRODUCTION

- 1.1 A ROCOB report or a bulletin of ROCOB reports from a land rocketsonde station is identified by M.M.M.M. = RRXX. The identifier for ROCOB SHIP is SSXX. (The name ROCOB or ROCOB SHIP shall not be included in the report.)
- 1.2 The code form is divided into three sections as follows:

SECTION 1 - Identification data

SECTION 2 - Data for specified geometric altitudes

SECTION 3 - Data for isobaric surfaces (optional)
(Sections 2 and 3 cannot be transmitted as a separate report.)

SECTION B - MESSAGE FORMAT

1.1 FM39.F ROCOB — Upper-level temperature and wind (possibly air density) report from land rocketsonde station.

SECTION 1	$M_{i}M_{i}M_{j}M$	j YYCG MM JJJ	IIIII $a_1 e_T e_T c_T^m$	reecm
SECTION 2	HHZ _T TT	ddfff	(9d _{P1} P ₁ P ₁)	
	нн $\mathbf{z_{T}}$ тт	ddfff	(9d _p P ₁ P ₁ P ₁)	
	• • • •	••••	••••	
SECTION 3	112 _T T ₁ T	1 P1P1h1h1h1	ddfff	
	• • • •	••••	••••	
	11Z _T T _n T	P P h h h n n n n n	$d_n d_n f_n f_n f_n$	
	22Z _T T ₁ T	1 P ₁ P ₁ h ₁ h ₁ h ₁ h	$d_1d_1f_1f_1f_1$	
	• • • •	••••	••••	
	22Z _T T _n T	p P p h h h h	$d_n d_n f_n f_n f_n$	
	33	• • • •	• • • •	
	44	••••	••••	
	etc.			

SECTION C - DEFINITIONS

1.1 Symbolic form table for land stations

 $M_{i_{1}}M_{i_{1}}M_{i_{1}}$ = RRXX - ROCOB report from a land station

YY = Day of the month (GMT) on which the observation was taken.

 GG_{G} = Time of launch in hours and nearest tens of minutes GMT

MM = Month of year (01 = Jan, 12 = Dec. etc.)

JJJ = Year (980 = 1980, 981 = 1981, etc.)

Iliii = International Index Number of the observing station (II = Block Nbr and iii = Station Nbr, both given in H.C. Pub. No. 119.)

a = Reason for no report and ground equipment employed (Code Table 1).

 $e_m e_m$ = Type of thermodynamic sensing equipment (Code Table 2).

T = Thermodynamic correction technique (Code Table 3).

r = Type of rocket.motor (Code Table 5).

 $e_{\omega}e_{\omega}$ = Type of wind sensing equipment (Code Table 6).

e = Wind correction technique (Code Table 3).

HH = Altitude, in kilometers, of the level for which data are reported.

 Z_{τ} = Character of the temperature reported by TT (Code T; le 7).

TT = Air temperature in whole degrees Celsius at the altitude given by HH. (For a temperature of -570, the coding is TT=57 and Z_T =5.) When temperature is missing, two solidi (//) are reported for TT.

dd = True direction, in tens of degrees, from which the wind
 is blowing at the altitude given by HH (Code Table 8).
 (See note below fff.)

- NOTE: (1) When wind direction or speed are missing, use solidi for ddfff as appropriate.
 - (2) The thickness of the layer through which wind direction and speed are determined shall be 2 km for both mandatory and significant levels; i.e., 1 km on each side of the altitude reported.
- 9 = Indicator figure for the density group, 9dpP1P1P1.
- d = Decimal point locator. The number of places to the left of the third significant figure. The decimal point must be so placed as to obtain the actual density in g/m³ by P1^P1^P1.

NOTE: The third significant figure is always included in the value reported for symbol d.

EXAMPLE:

Assume 120 g/m³, the group is coded 90120 (i.e., $d_p = 0$).

Assume 1.20 g/m³, the group is coded 92120 (i.e., $d_p = 2$).

Assume 0.281 g/m³, the group is coded 93281 (i.e., $d_p = 3$).

Assume 0.0788 g/m³, the group is coded 94788 (i.e., $d_p = 4$).

- P_1 P_1 = Density in gm/m^3 rounded to three significant figures at the altitude given by HH.
 - 11 = Indicator figures Standard isobaric surface data follow; temperature $(Z_T^T_1^T_1 \dots Z_T^T_n^T_n)$ is reported in the same manner as in section 2, pressure $P_1^P_1 \dots P_n^P_n$) is reported in whole millibars, altitude $(h_1h_1h_1 \dots h_nh_n)$ is reported in geopotential hectometers.
 - 22 = Indicator figures Standard isobaric surface data follow; temperature is reported in the same manner as in section 2, pressure is reported in tenths of a millibar and altitude is reported in geopotential hectometers.
 - 33 = Indicator used for reporting pressure in <u>hundredths</u> of a millibar and altitude in geopotential hectometers.
 - 44 = Indicator used for reporting pressure in thousandths of a millibar and altitude in geopotential hectometers.

- 55 = Indicator used for reporting pressure in ten-thousandths of a millibar and altitude in geopotential hectometers.
- 66 = Indicator used for reporting pressure in <u>hundred-thousandths</u> of a millibar and altitude in geopotential kilometers.
- d₁d₁ = Wind direction in tens of degrees (Code Table 8) at the
 reported isobaric surfaces.

 $f_1f_1f_1$ = Windspeed in meters/sec at the reported isobaric surfaces.

ATTACHMENT 12 TABLE OF THE LOGS OF MANDATORY PRESSURE LEVELS

ROCK 3

LOG OF MANDATORY PRESSURE LEVELS

LEVEL	50 MB	30 MB	20 MB	10 MB	7 MB
LOG	1.69897	1.47712	1.30102	1.0	0.84509
LEVEL	5 MB	3 MB	2 MB	1 MB	
LOG	0.69897	0.47712	0.30102	0.0	
LEVEL	0.7 MB	0.5 MB	0.4 MB	0.3 MB	
LOG	0.15490	-0.30102	-0.39794	-0.52287	
LEVEL LOG	0.2 MB -0.699897	0.1 MB -1.			
LEVEL	0.07 MB	0.05 MB	0.03 MB	0.02 MB	
LOG	-1.15490	-1.30102	-1.52287	-1.69897	
LEVEL LOG	0.01 MB -2.0				
LEVEL	0.007 MB	0.005 MB	0.003 MB	0.002 MB	
LOG	-2.15490	-2.30102	-2.52287	-2.69897	
LEVEL LOG	0.001 MB -3.0				
LEVEL	0.0007 MB	0.0005 MB	0.0003 MB	0.0002 MB	
LOG	-3.15490	-3.30102	-3.52287	-3.69987	
LEVEL LOG	0.0001 MB -4.0				
LEVEL	0.00007 MB	0.00005 MB	0.00003 MB	0.00002 MB	
LOG	-4.15490	-4.30102	-4.52287	-4.69897	
LEVEL LOG	0.00001 MB -5.0				

ATTACHMENT 13

SAMPLE COPY OF HIGH-ALTITUDE METEOROLOGICAL DATA (SEE ATTACHMENT 5 FOR INPUT DATA)

2 - 12, 343+03, 725+0317

- 12, 343+03, 223+0319

- 11, 403+02, 424+0321

- 11, 561+02, 424+0321

2 - 1, 21, 404+01, 661+032

3 - 21, 23+03+01, 661+032

- 21, 23+01, 661+032

- 21, 23+01, 661+032

- 21, 23+01, 661+032

- 21, 23+01, 664+032

- 23, 445-11, 664+032

- 23, 344-11, 664+032

- 23, 344-11, 664+032

- 23, 344-11, 664+032

- 23, 344-11, 664+032

- 23, 344-11, 664+032

- 23, 344-11, 664+032

- 35, 615-11, 664+032 - 14.15.44.04.63.74.30.9 - 15.344407.81.74.30.9 - 14.6424.66.71.540311 - 14.033405.51.040312 70 -30 -52,340-14,227-13.3 A69999999,399+39,999+0906 8061+086-21+464-11--11.090+11.644+1305 -19.433+01.400+1307 -1--176+01-211+1309 17.096+01.036+1310 -13. 16+0 . 004+0314 -13.006+04.314+33.5 -33.465-15.435-1319 -43.380-14.7F6-13.A 6555+666,66+666,6566666666 05.060+18.156+1293 1.022+13.0 63-114+14-955+1797 -12.463414.22641297 -12.291+13.***5+1350 -11.071+13.042+1701 -11.263+11.920+1304 62,300+14,777+1297 976747434345454C*F1 113.63.415.416.124.1246 \$ 22.5 0 5 1 9 -3+ 000 7 5 -25 -27 0 47 10 A-131 20,000 65 200079 40100 436163 530362 4.000 220000 としつつつき *40000 5 303 8 94739 00000 0000 11112 33010 4 26.08 100, 31776 2335 73057 1007

ROCK 3

Trist Rowann -3 2 Charles at a 25 cm

A-133

ATTACHMENT 14

SAMPLE COPY OF CARD OUTPUT (SEE ATTACHMENT 5 FOR INPUT DATA)

10061

C 1 45	x	- : :	6 3 3	3					1
		0	٧	e at t	 	٠ ١٠٠	3	ŏ	228/
		•							
,	•	۲,	* * *	•	200	() () () ()	۲.	÷.	50.
~4	,		4 \	٠,	7.7 50	7 7 7 7	٠.		٠٠,٢
٠.,	3 •	ς,		•		3.613	" (*	6.10
• .	٠ -	~ :		ş .	47740	7 · 1 4 ×	•	•	5.5
3 U		4 -	, (•	70.0				3
٠.		- ·	• n		200		• "	. 0	
) r	, .• .:			. 4	202		•	•	•
- 4		, ,			400	4 6 6	• 4		1 0
. ა	,			•	4 2 3	466	• 7		3
ני	 G	n u*			700	200			200
		. :	7 J	. {	700	. 77		. *C	3
• ^	· · ·	; ¢			6.633	1,000	α.		3
. ~	T -	÷ €		4	7.0		3) (
	•	5.	36.5	_	1095	0.361	5.	90	3
	ćŧ	4	37.4		4	9.037		60	8
•	. (F)	27	36.1	ı,	343	1,	۲.	00	3
~	:	, ~i	10.4		641	.715		11.	00
•	1,	3.5	47.	T.	683	90.9	6.1	12.	E.J.O.
o	£.	÷	* 4 4 .		¥14.	-00.	3.2	13.	S
\$	4 5	35	47.6	1.1	.064	.313	٠. ع	۳.	3
7	£ G	.C.	50.4	1.2	.678	.725	8.2	17.	3
\sim	2	37	53.5	7.5	.343	.223	er.	19.	ទ
	3 :	3	5,6.7	2.1	.053	.790	6	0	
		;	~ ,		3 : 5 :	£ 6	,		3
- 4		, c	0 0	• u	0 0	777	•		
	1 6			• •		4004	֓֞֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜		3
000	. J	. "	26.1.90		1.0735	1.4279	63.66	276. F.	000
U	ns or	, r.	17.6	2	770	2.1	7.7	25	3
•=	· ^	•	20.39	2.t	H 32	955		27.	3
_	120	35	60.04	2.2	134	047	5.0	20.	3
~	₹.1	€*	64.5	2.2	647	853	7.4	24.5	3
m	₹01	*	41.9	2.9	570	758		7.	ຣ
•	0 6	~ 5	40.0	ed (135	5	3.4	6	3
4.	~	u.	7.2	٠,	440	96	7.2	7,	8
C P				2.0	ا ا ا	T . F) ; 		2 3
~ ⊍	* C	•			'n		•	•	3
u n	r. 0	y 4		r (***	774.		• • •	3 3
			000	2	000	00	.,	0	; ;
			0	•	700 00	00.00		00	0.5
E CT P.C.	~				•	•	•	•	;
741 404	. '	1 (2) 1 (4)	•						
,	9114	1694	j						
Super Lak	_ '	4-12.0		;	,	!	ï		
_	<u>-</u>	a.	01.	4	ú	Z	4	<u>~</u>	Ť
يف		n.	¥	ë	S & M	(·/#3	۷ <u>۵</u> ۲		2357
õ	4		11.4	4.	9,999	6000	-	31.6	0
2	ď.		7.7	*	4.073	2.739	c	91.6	S
350	0		12.5	*	3.476	9.32	5		400
23753	6.5	۲,	213.00	64	51.7742	44.657E	R. 0.1	207.73	.007
100	۲,		13.5	4	0.754	1.361	٠.	73.	-
12.	Ţ		14.1	*	7.478	7. A16	٠.	23.4	500
						•			

| Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colored | Colo

A-139

•		, c	#*************************************	ניו	÷5,	ຫລວ•	400	1 5	7.7	20.7	610	010	\$* \(\frac{1}{2}\)	***	7.10		018	01.9	21.4	!			~	SEC	666	904	0 0 0	*00	900	400	1 9	900	\$ 000	.003	\$00	er 4	200	305	400	200	301	201	700	100	000	200	200	200	200	2	??,
• 	. ,	y .		, c	٠.	- C	ים ר ייי ר	. 1 u	16.36	14.12	13.38	1206	٠ د د	, 0	00.00	00	60.00	00.00	000000	•			NS SHI	<i>U</i>	7	er. 6			0	•	ç	-	2	z m	36	<u> </u>	. «	11	.	•		7			4	٥.	en 6	T. 4	m	ر. س	-
•			2 4 2 5 4 6	69.10	71.0.16	72.23	76.07	74.76	70.05		•	•	•				•	•	04.23	•			æ	FPS	12.40	15.22	18.06	18.44	17.67	17.71	19.30	19.41	20.30	21.53	22.53	23.24	23.00	22.25	22.20	24.06	30.70	32.24	75.00	30.11	28.0¢	24.47	30.60	33,00	35.37	36.66	57.23
	. 130			1 4	.5335	92.		47.5	4.1.44.	. 4485	4654	.4227	1015	0000	0000 000	6655 666	6666 6666	6665.666	0000 0000	• • • • • • • • • • • • • • • • • • • •			DENSITY	6/113	69	23	3.5	9	7	2 L	999	8	6	51.3107	90	38	107	254	25	٥,	::	2	200	5	41	30	6		6		•
	• • •	4 4 6 0 7	16734	277	\$40E.	3735	3434	. 33HC	1.325.	.3154	.3052	. 2043	2 2 2 4 4		0000	6666	3666	66 66					PRESS	æ	7.2	φ. (, ,	7	•	C '0			5	32.2444		e		3.	•		; ;	~					•			•	
٠	70.	• .	-10		- 3.45	4 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		60.	, ,	-4.17	4.3								00.0				TFMD	CORP	43	.43	7,	43	44		94	te	1.47	7.5.	14	1 (1 0	51	-,51	1,5	. 6	4:		` .	1.54	9 W	4 V		, ,	0,4	[·.
	•	0. 4.40	7.4.7	1,1,61	252,25	76.1.9.23	7. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	•	246.47	545.33	244.18	243.54	241.77	300	0		3	Ü	65.500	•	:		T' H	_	=	2:	~ ~	214.11	*	- C	9	17	F .	214.93	4	<u> </u>	. 6	20.7	25.0	. · ·	2 4 5	~ '		,	7	227. hf	E 1		25.0	2.5	
	.•	~	<u>,</u> ,	· 4	23	? ?	i ć	a P	~	5 3	7 7	' J .	.	-4 (* 9 (?	\$	č.	0 4 4 1		AFC FI	-117	•	-	34	۳ (7 P	T	2.	7, 0	. ~	3.	30) () () ()	33	3,6	n 16.	ř	,	• •	;	;		*	*	\$ ·	9 d 9 d	, 5	÷.	4.7	•
•		~ ′	٠,	•	a' 1	~ .	: <u>^</u>	*	5	r c	lo	20	3 €	2 2				14		` ~	JEKAL 116 1	_	a : C	ع ر	ş	a -	÷ 7	4	R 2	۲.	• er	16	103	, io	7	÷ (. v.	*	•		, t	<u>بر</u>	T (C	. W	1	· ·	e =	α	. u		•
	1,44,	000 kg	24 W 4 W 4 W 4 W 4 W 4 W 4 W 4 W 4 W 4 W	1,47	3¢ 0CC	562.0	56.76	0.000	5722	67560	17750	3 376 %	C , 7 + C	7.46.67	5366	59250	50500	19750	40000	TIN LY	CASE CANA	Silpta Lok	_	REOMFT			1000		71756	72300	74000	72047	76300	7,000	79000	0000F	2007 2007	000E#	00056		17000	9.000	00000	00016	95000	03066	00000	00000	37016	40700	4901.1

| 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1,000, | 1

ATTACHMENT 15 SAMPLE COPY OF CO-RAWINSONDE 250-METER INPUT

. 1.

7 4 16.

22.2

.004 .004 .004 .004 .007 .007 .007 .008 LUTIGATION (10) 1000 CONTROL (10) CONTROL (1 1.22 446694646466966 .031 089462274341 UH7430227343 0825042040339 0415721970337 0796721943334 07767418403335 U757231F40334 U739931Pf0333 0723471°003331 0.704231470331 0.66560183930 0.669801839320 0.652341520328 0.673251440328 0489841100315 0477241C70214 0464331040312 UCU6351420324 C5912613F0327 O575621310321 C43944W9#D31D O42781D94D300 G4168UJ9303C7 05444F1230320 0529F31190319 つりをうしゅのいをて今日の 6938662430369 e££C001145 0559551246421 C515511160319 U5v219113C316 1151111111190 0405700910304 03941462803964 330660747307 0356640760799 v35c91.077,305 36500404401 666 039 C51 C51 O53 030 9.50 90 48 7 3 3 4 7 4 0 J 041-02 CHOCAL 255 18 6.24.0 41.1.1 4165614 054003 05H379 265750 049885 956229 20092 25025 25072 .23257 13435 6.7 / 0.00 de 4.000 0.00 de 4.000 de 4.000 de 4.000 de 4.000 0.000 de 4.000 C 11 7 500 600 600 600 600 600 600 600 600 000 000 000 000 000 000 100 100 100 100 133 6012+0 0013+0 0015-0 0017-0 635233 635503 635753 63575 63575 0,000 0,000 0,000 0,000 012750 012750 133000 013271 013750 013750 064.25.1 104.40C 034.74.0 314.753 012033 012.753 539733 616303 CUCCL 000000 011500 A-145

1000000000000000000000000000000000000				00000000000000000000000000000000000000		- 7 7 7 4 4 7 4 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	00000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
				00000000000000000000000000000000000000		77774 70 6 70 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 7 M 9 M 6 M 6 J W 7 J 7 M 6 J W 7 J 7 M 6 J W 7 J 7 M 6 J W 7 J
1			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000000000000000000000000000000000000		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	4 0 0 N V M 4 0 D 4 V 0 V 0 V 0 V 0 V 0 V 0 V 0 V 0 V 0 V	7
			;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	0.000000000000000000000000000000000000		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			7 7 6 8 6 3 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
10				00000000000000000000000000000000000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 U C 7 O O O O O O O O O O O O O O O O O O	00000000000000000000000000000000000000	01.030 000 000 000 000 000 000 000 000 000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
					7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7)	7.790.50.20.20.20.20.20.20.20.20.20.20.20.20.20		6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
10			. ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	00000000000000000000000000000000000000	9 9 9 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	C 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		070000°C
				00000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	C	50000.0
11			;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	00000000000000000000000000000000000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30		77.07.4
111			2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	> 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 4 6 6 6 6	3
13				00000000000000000000000000000000000000	50000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	\$300	
13					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 111 4 5 6 6 6 11 1 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	400°	36600.0
13				0005836 0005836 00058036 00058036 00058036	> C C O O O O O O O O O O O O O O O O O	3 3 C 5 6 6 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 6 7 6	20000000000000000000000000000000000000	500	65500.0
11			,	0005500 0005500 0005500 000500 000500 000500		7 C O O O O O O O O O O O O O O O O O O	20000000000000000000000000000000000000		65630.3
11				00.5389 00.5389 00.5389 00.5389		+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	200	> 000 000 000 000 000 000 000 000 000 0
017 532 099 004979 699 0699 0699060293 0069 017 532 099 0195899 999 0699060293 099 017 532 099 0174 5010 592 0174			U O O O O O O O O O O O O O O O O O O O	00.5807	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000	00000000000000000000000000000000000000	235	0000000
11			00000000000000000000000000000000000000	005389	0 0 0 0 0 0 0 0 0 0 7 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0008 # 040 0008 # 040 0008 # 040 0008 # 100	5	6660000
117 1941 949			0 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	004079	0 0 0 0 0 0 0 0 7 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000429 007741 00741	.004	6560000
011			3	626400	2 0 0 0 0 2 7 2 0 0 2 0 0 0		007441	900	66600.0
11					0 0 0	0000	007416		000000000000000000000000000000000000000
11			0000	004400	666	0666		000	9565000
11			0000	P04426	666	0666	0671170	000	0.00340
11 14 499 101507 101			ۍ ت	U0425A	4	000	36995	\$ 00°	56600.0
11			7	004043))))		10000 FF		700000000000000000000000000000000000000
11			966	003746	7	9006	00000	2005	35000.0
11			000	259600	666	6666	105×2+0	£ (5).	\$00000
011			000	002503	666 6	0 0 0 0 0 0	005574	30,	0,000.0
11. 530 099 003120 599 0966 0044770113297 0046 012 530 099 003269 999 0969 0044770113297 0046 012 599 0369 0044770113297 0046 013 530 099 00369 0999 00467501103297 0046 012 523 523 523 523 523 523 523 523 523 52			665	003243	566	6666	6651476	001	0.00999
11.			000	003120	963	2000	1240470	. r. u	0.00000
0.17 53.1 099 00.2786 999 0644620100204 00.18 0.18 0.18 0.18 0.18 0.18 0.18 0.1			200	003002	ኃ o ው o ው o	0000	0047470	400	0,0000000000000000000000000000000000000
0.16			000	002786	666	6065	0544620	00	06600.0
0.2 F.12			200	0.02675	566	0066	0042290	.00	0.00999
12. 70 70 70 70 70 70 70 70 70 70 70 70 70			565	(02574	666	6665	CC40541	.003	0.00999
12 47 494 00228 494 0135330rf 0301 174 175 479 0494 013122 499 0494 013123 174 176			7 0	10246	7 0	0000	004774	\$000 0000	\$55000 C
U22 479 9999 103132 999 9999 10373713 1000 U22 470 999 10379713 1000 <t< td=""><td></td><td></td><td>3</td><td>002238</td><td>000</td><td>3000</td><td>0035530</td><td>33</td><td>00000000</td></t<>			3	002238	000	3000	0035530	33	00000000
u22 470 999 60263446(70372 700 u22 471 995 602053 999 999 603446(70372 700 u23 471 990 999 999 603440(70372 700 u23 473 990 999 999 999 999 999 u23 441 990 60174 999 999 902713076930 700 601 u23 441 999 60174 999 999 9026 100 100 u23 441 999 60174 999 999 9026 100 100 u23 441 999 60174 999 999 904 904 904 900 100 100 u22 441 999 60174 999 999 904 904 904 900			666	JC 2213	605	0000	1036211	· 002	0.00509
4.23 4.59 4.90 4.90 6.90 4.40 6.90 4.70 6.90 4.90 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.2			8 000	002332	0 0 0	5666	1,032951	3	99999°F
0.23 4-3 (994 6.1496 999 9449 0.029110.77367 .001 0.23 4-44 0.025110.77367 .001 0.23 4-44 0.025110.77367 .001 0.23 4-44 0.025110.77367 .001 0.23 4-44 0.025110.77367 .001 0.23 4-44 0.025110.77367 .001 0.23 4-44 0.025110.77367 .002 0.23 4-44 0.025110.74 0.02 0.025110.74 0.02 0.23 4-44 0.025110.74 0.02 0.02 4-44 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.			500	0700	0	900C	140500		30000
023 458 649 640 601536 936 4592 667210 63302 (601 023 441 999 60174 999 9950 0027130 667302 (601 023 441 999 60174 999 6950 00256140 5303 (602 022 441 999 60174 999 9950 0025617303 (902 022 441 999 601470 999 9950 0027446 3762 (902 022 431 999 601477 990 9950 0021720 6773 (702 023 431 999 973316 999 9950 001720 976 (902 023 431 690 973316 999 9950 001720 976 (902 023 431 690 97323 999 9950 001720 976 (902 023 431 690 9723 973 973 973 973 973 973 973 973 973 97			200	905700	000	0770	00707	60	45660.0
123			64.0	363700	366	0015	1122211	100	5660000
623			500	001260	600	0566	0027130	100.	66603*0
023	•		999	001704	000	0343	2000	.00.	66500.0
122 44K 600 600 400 4000 600 600 600 600 600 60		٠	000	299100	\$ C	0505	0.0256.70	600	0550000
12. 43. 69. 00.136. 999 944. 0.02.234.0.736. 10.2.22. 438 990 00.136. 999 990. 0.02.18.20. 10.2.22. 438 990 00.136. 990 990 990 00.27.20.1374. 10.2.22. 438 990 00.136. 990 990 990 00.27.20.1374. 10.2.32. 438 990 00.126. 990 990 00.126.130. 10.2.22. 438 990 00.126. 990 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.2.22. 438 990 00.126.130. 10.22. 438 990 00.126. 438 990 00.126.130. 10.22. 438 990 00.126.130. 10.220. 438 990 00.126.130. 10.220. 438 990 00.126.130. 10.220. 438 990 00.126.130. 10.220. 438 990 00.126.130. 10.220. 438 990 00.126.130. 10.220. 438 990 00.126.130. 10.220. 10.220. 10.220. 10.220. 10.220. 1				*****	7 5	7	17 1 5 20 n		*******
322 439 999 601366 999 4949 602152053364 601 622 438 496 601366 999 4959 602C720053364 6062 623 431 999 031316 999 9999 401995464643144 6767 123 431 696 601263 999 9999 6012623054, 244			300	021670	650	7 7	00000	26	056000
022 43k 49c 00136c 499 4959 602672065936 6067 023 431 999 991316 499 9999 4999 9996 0016973054 5067 023 431 696 001263 999 9999 9999 60177206 5045 5045 5045 5045 5045 5045 5045 50			000	1.6.141.7	900	2000	. 61 67.	[]	9900000
023 431 999 UD1316 999 9999 QUISQUUGUTAR 1007 123 431 696 UD1269 999 9999 QUISQUUGUTAR 1007 123 431 696 UD1263 999 9999 9999 UD1263 434 9969 UD1263 999			303	001366	666	6564	0.02072	36.	0.00999
123 431 000 001240 000 6000 001-72-00-13-4-13-4-13-4-13-4-13-13-13-13-13-13-13-13-13-13-13-13-13-			700	331316	666	6066	00100	٠,٦٢٠	65603*3
** TELEVICATION 6005 TABLE 27100 555 FE			. O.	001240	500	3505	001036	4	F0F00.0
			3 5	62767	3 C	6200	7 . Tou	-;	03000 0

•	•	* * * *	35.7	•	7377.0		0.00.00	1721 7.1324		3500.0	660000	000000 0000000000000000000000000000000	0.000	4.009	Q*00.0	000000000000000000000000000000000000000	0.0099	9000000	60	or (> -						•••		· 			· 					_					10 to				J		• -		
		3 mo 1. (1)	M. 1:0 1	1167 7 2711	76 67391479 V		36,800,41106	112735	6. E1046 (130)	00105407973	0610.36.203	F0E0200410T00	9000450000	יונויסויאנטטווי	0C0H73662C3	COL 12 COL	0007520323	0.0075300703	•																											T &	ر - م	· £	0.65	
		•	202 211	10 to 10 to 10 to	£ ()	יין ביל די בין ביל די בין ביל די	665 1	95% (X		27 949	050 17	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	763 76	17 900	36 430		66.3 SE	000018 696		Trioy LEV	•	2	C	. د	د د	٠.	-	ت ن	0	. د	> =		ه د	.	0 0	, 0	•	0 0	• •	٠ -	J 3	50.234 999	J	C	ىـ ب	PPFSS IR	726 603	01517 350	4 LE C. C. C. C. C. C. C. C. C. C. C. C. C.	
	-		;	:			0.00	100	: 2 2 3 3	7 7	202	50 5 5	200	3.0	0 .	2 0 0 7 0 0	300	2000 C	129.55	r. r. r.	- 6	53.F	767	162	. C 0	db.)	26	14.	 	113	7 g	73.	57P 440	200	303	300	oño	000	;) ; U	50.5) () ()		265	3 0 3 0 0	70.00	C	26.2 26.5		۲.	•
•	•	•	, ,	,		اء ا	7	ŧ.	7 a	176	372	375	1, 6	C.	d ·	 	17.	361	717.4		2	427	245	600 600	191	7	7.	1 2 C C C C C C C C C C C C C C C C C C	96.0	£ 30	¥ 4	ر د د	7. 7. 7. 7. 7. 7. 7. 0. 0. 7. 0. 0. 7. 0. 0. 7. 0. 0. 7. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	. a	A. 1	7 (7 2 2 2 4	9.20	(E)		٠, و د	0.74	1. L. C. A.	T+ 5	ه سه د پ د) خي	ť	C + +1	417	2 4 %	(4)	
•		ب	· · :	.·. C		ζ,		, .			1,73	173	, ,	3.0	7	7 7 7 7	1 26		1-147		· .	7 to 1	3	400	000	1,6.4	5 00	200	300	610	500	770	000	37	11.	\ £ 5 C	010	נוי פ	1	, 17	213	0 2 5 C	022	47. در:	37.	٧. د ٦	ر د د د د	900	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	í
•	•	,	·				Ġ,		, ,	:		o o	٠.	. 7		7 0	-	0 1	2 12	•	- ^	U 4.	-4	N1 4	• •	-	\sim	` ~	0	٠.	4 1		5 4	()	•	ハマ	•	1 1		1	.7 .	ָרְ בְּ	CT.	7 4	;	_	' > re	٠.,	11ء 13ء	t
	١.		_		•	~ ~		33,00	~ ~	•					~	ss	· .	6464	, c.C. c.c		•	4 ~	~	0.015	325	603		\sim		~ .		~	σ.	• ~	~ (~ ^		~ ~	- 7	~	-4 -	026774	·£		t .	F 7 4 A	6000	3000	001214	
				_																				Α-	-] 4	47																								

ATTACHMENT 16
PROGRAM LISTING

ACTE WYSCHE

PENGRAM RNCK(INPUT=65,FUTPUT=65,TAPFT=512,TAPF2=512,TAPE5=55, C. TAPFn=65,TAPE7=65,TAPFE=1LTPUT,TAPF3=65,TAPF10=65, C. TEPF1A=1NPUT,TAPE22=65,TAPF663=5,TAFFA1=66,TAPF62=6;1

COMMON MAXALTHHLAPHLATGLAFE PCSCONISCHNZPAKIPAYIPAITESTANMANDA *NYANTAINDANSAIXAIAAIBAICAJOANOTEMPANTASAIN(S)AINKILBIAIPOCK COMMON GRATAZETAIAAIKIAIMRAIEMAICMAINDIAIDA COMMON/DATAZATC(SI)ARTC(SI)ACTC(*1)AUTC(SI)ACTO(54) COMMON/DATAX/MMGIZDANST(12)ANGT(2)ANGT(2)ANTA(3)

DIMENSION MAXALTS(3)

CONFORMATED & FIRMATED - POCKET TEMPERATURE DATA ILE (UNFORMATED) SCRATCH FILE (UNFORMATED) SCRATCH CRATCH TUGNI TAPES TAPES TAPES TAPES TAPES TAPE 1

INPUT - COPAMINSONDE INPUT - ROCKET TRACKING DATA OUTPUL - TEPMINAL OUTPUT - CODE TAPE 16 [APF16

INPUT - TERMINAL OUTPUT - PRINTER OUTPUT - HAMDATA TAPE 62

1.477120 1.69897 . 69897. MANDATORY PRESSURES DATA PL / 2 100

- .39794. - 15490p - 30102p -2.15490s -2.30102s -3.15490s -3.30102s -4.15490, -4.30102,

- .52287. - .69897. -1.52287. -1.69897. -2.52287s -2.69897s

.30102. - .52287. -4.69897,

-4. 42247

-3.52297, -3.69897,

MOZYHIZAN ZEHEER ZEHRAR, ZEHAPR ZEHMAY ZEHJUN ZEHJUL ZEHAUG

4HSEP S4HOCT S4HNOV S4HDEC / DATA NST(1)SNST(2)SNST(3)/10HCAPE CANAV,10HEPAL AFSSF,2HL./ DATA NST(4) NST(5) NST(6) NST(6) NST(6) NST(7) NST(7) NST(8) NST(9) / LOHASCENSION , IOHAAFR, SAD , IH Data npc/104Loki , 104Super Loki/

ATC/.uu0465,.uu0465,.uuc464,.uuc461,.uu0463,.uu0463,.uu0462,.uu0461,.uu04659,.uu0469,.uu04659,.uu04659,.uu04659,.uu04659,.uu04669,.uu0469,.uu0469,.uu0469,.uu0

1654000.455000.

U.837,6.8U4,0.77f.U.749,U.774,D.70,O.677,U.656,U.635, O.616,O.597,O.580,O.555,O.550,O.834/ 1.212s.1.160s.1.11s1.665s1.019sv.978s0.94vsû.9u3sv.86ts

U5-13>U4-57>U4-57>U4-01-03-55>U3-29-07-38-07-73>U7-55>U4-573> 02-17>U2-03-01-9U5-01-77>U1-67-01-77>U1-46>U1-40>U1-33> EATA ETC/23.2G.18.40.15.00.12.50.10.49.08.34.07.70.06.69.05.87

A-151

: ::

```
34/38/14. 14.39.45
                                                                                                                                       . . . 985 . ] . 543 . 0 . 597 . 0 . 855 .
                                                                                                                                                                                          .555.0.540.0.0.615.0.593.
                                                                                                                                                                                                                                                                                                                          01.75, J1.57, D1.41, U1.27, U1.75, D1.04, D3.936, U3.87, U3.42, U.766, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U.718, U
                                                                                                                                                                                                                                                                                   CT+/U7+2t+0a+U4+34+94+U4+13+03+4P+03+GP+02+59+02+26+02+90+
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIMPINDANYPHT FIND FIND STRUCK STAIS IKTS IMPSIEWS ICM
TO 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .44E-11,05.22E-11,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               u4.u9E-11.03.94E-11.03.81E-11.03.69E-11.03.58E-11.03.58E-11.03.58E-11.03.47E-11./
FTR 5-1+552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6.85E-11,06.52E-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3.210,0.203,0.197,0.191,0.1<sup>8</sup>5,6.1<sup>8</sup>0/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   U7.95E-11,U7.53E-11, 07.18E-11,0
06.22E-11,05.96E-11,05.68E-11,0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    05.00E-11.04.79E-11.04.60E-11.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IF (I.NE.RWYW.AND.I.NE.RW.W.) GOTC 120
IF (I.EO.RWYW) READ(IRDR.7)
READ(ITEMP.1) ITEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IF (I. POLDWYN) WYCHT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              READLIPORA 31 (NSTILL) I I 10 . 12)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JF (IND.EQ.6) IA=2
----SET HP TYPE JF SANDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .EO.RWYW) NIGHT#1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 --- CET UP MOTOR TYPE
    J - 1 - 1
                                                                                                                                                                                                                                     3.274.3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F(MS.E0.12) 1x=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DATA NAME/"POCKS
CALL IN(NAME)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IF(NS.FO.1) IX-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PFAD(ITEMP,2)NS
IF(NS.NF.99) GJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PE=6371229.315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PEAN(ITR,5) 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CALL CAKINIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CALL GRAVITY
    7:146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0001+KN=KN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REVIND 61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           45=IX+2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      91.6
>36 × ***5666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3023
```

PAGF

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC TAPPED

CALC

c4/J3/14. 14.34.45

A-153

```
54/00/14. 14.39.45
                                    SUPPOUTINE OUTPUT(ASSIDENTEUTEPES)
COMMON MAKALTEULLE POLETRIEFE FONCONIECONE MOPEKIPEYIPEITESTENMENDE
VYENTEITOENSEIKEIBEIGETOEUGTEMPENDOSEIK(OM)EINKLHEIDOCK
COMMON GRATEZATEIBLEIKTEIHPEIGENICHEINDENIEOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WS=(SORT((X-XIP)*(X-XIP))+((Y-YIP))*(Y-YIP))*CON2)/(HS-HSP)
IF(H8L.FQ.HS) PS=DS=999.9999
IF(HS.LT.20000.0)PETURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TF(HS.LT.65610.66.4ND.CON1.NE.1.) RETURN
HPITE(2.1) TRUD(HS)JIRND(OIR)JIRND(SPO)JTJTC.PS,DS.FX.VS.PS
FURMAȚ(1.4 p.17.216.26Ft.2.2F9.4.2Fb.2.Ff.3.4%)
 FIN 5.1+532
                                                                                                                                                                                                                                                                                                                                                                                                                    FX=-FS+CON2
1F (X.LE.090..AND.XIP.LE.999.) GOTO 112
                                                                                                   1670(B1)=[FTX(CIGN((BPS(A1)+.5), A1)]
                                                                                                                                                                                                                                                                                                                                                                    VS=(331.45 * SORT(T/273.15)) +CON1
                                                                                                                                                  IF (SPD.PE.999.) SPP-SPF+CFH1
IF (T.LF.999.) GOTO 100
T=999.99
                                                                                                                                                                                                                                                                                                                                                                               IF (FS.66.-999.1. GOTO 112
                                                                                                                                                                                                            IF (P.LE.909.) 60TO 103
PS-DS-909.9999
60 TO 104
3 PS-10**P
IF (T.LE.999.) 60TO 106
                                                                                                                                                                                                                                                                                                     1F (P.L".999.) GOTO 108
 O-let
                                                                                                                                                                                                                                                                                                                                                       DS- (PS/T)+348.38
                                                                                                                                       (Yex) (ASWANDS
                                                                                                                           OIP # WFIH ( K, Y)
 7114
                                                                                                                                                                                                                                                                            6666.666.30
                                                                                                                                                                                                     1C-1-UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      YIP=Y
PFTURE
FND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SH-dSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            XIP=X
STARROTTENE SATPORT
                                                                                                                                                                                                                                                                                                                                                                                                            711
                                                                                                                                                                                                                                                                                                                                                                   100
                                                                                                                                                                                                       :
?
:
                                                                                                                                                                                                                                                                                                                                                                                011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112
                                                                                                                                                                                                                                                                                                                   106
                                                                                                                                                                                                                 デャモ ろてい ウェスリモ ヤモごての ひろんゆ ちゃもご てい ひりょうりゃん ヤト とち そち ちち ちを ちち ちごろ ごって こっしょ
```

OAGE

94/06/14. 14.39.45 Cit+T+C hla 7.7 T. 74174 alc. Prilate

PAGE

D=ATAR(Y/X)+57.29576 IF(X,GT.C.)WDIR+90.-D IF(X,LT.O.)WDIR+270.-D IF(WDIR-LT.D.5)WDIR+360. JF(X₄LF₄998₄) 63 TO 1JJ WJIPH 999₄U RETURN IF(X.LE.998.) GO TO 120 WDIR-999.D IF(Y.GF.U.) GO TO 113 IF(Y.GF.U.) WOIR= 360. IE(Y.LT.O.) WOIR= 180. FULCTION ADIRIXATE ENTRY MSPO RETURE: 70.1 110

A-156

4PIR-SORT(X*X+Y*Y)

103 VALUE=R+(A-R)+8 PETURN END

A-157

PAGE

Contract of the Contract of th

3. T. T. 74/14 ALIANO) SHITHUGELS

```
COMMON MEXELTAMED DREATER DESCRINGATIONS MEDANTED VITES IN MENDA

CONTACT STATES TO THE STATE OF THE STATES IN MENDAL COMMON ON THE STATES IN MENDAL COMMON ON THE STATES THE STATES THE STATES IN MENDAL COMMON ON THE STATES AND THE PROPERTIES OF THE MENDAL COMMON ON THE STATES AND THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF THE STATES OF T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1F(PK .EQ. 1) 63 TG 1
```

. FQ. . 9) GD TD

FQ. 12) GO TO

PEADLIRDR, 10) ZATARLATARMINARLON FURMAT(F3, 0, 1x, 2F2, 0, F6, 0) GO TO 16 IF(NS .EQ. 99) GO TO 9 2

RLAT"-2+(RLAT/57,29578) GPAT = 1-("0026373+(CDS(RLAT)))+("DOODDS9+(CDS(RLAT))++2) FFTIPN 97

A-158

0.4740

P A GE

34/00/14° 14°39°45

```
COMPAN MAKALTS TRESPER TRESPER DOSCONDA MODAL TOUS TOUS TOUS TOUS TOUS TENNANDS CNY MEDICAL SELECT TOUS MODE OF THE TRESPER TOUS MODE OF THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER THE TRESPER T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMMON/OFTAS/PJ(12), WST(1,2), WRC(2), WTA(3)
COMMON/XY3-/T, A, E, D, 182 (27), J TS, TIM, ITS30, AL, EL, X, Y, Z
CHITTERS TO BETTE AND 31 CHASACTED CHICKLY THE PUTNITED CHITTEN POINTED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F(16ETC(1T0,6).E0.R".") 60T0 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WRITE(61,10)1TEST,T00AY,CLO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NACENIUM STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF THE STATEMENT OF T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HPITE(61,P)(NST(I),I=IX,N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPITE(51,11)NPC(IA),1ROCK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DIEDAEDEEDREDZEO.O
PEAD FIRST CARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PEAN(IRDR, 4) ITO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CALL TIME (SLOCK)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [538=D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PPE = 7
```

-SORTIREZAT++2+R++2+2.0+PEZAT+R+SIN(EL))-RE C-EL+1 (Z+1COSIEL)/SINIEL))/ (2.2+RE)) #P#CDS(EC) #SIN(AL) "BREDS (FC) *COS (AL

F(1.E0.1)60 TO 11 OMPUTE DELTAS **り**チ・チーチ2

DP=(R-R1)+DX (U+(11-2)=20 UE . (E - E 1) + D

C----KRITE TEMPATIMENKAYAND Z DN JAPE

VPITE(1) Toke Ye ?

112

4PTTE(61,p7)To As Ep Ro Zo (1PZ(J)s J=2,4)s NTs NAs PE, NP p 0.2

A-159

F 36 CHARACTER DATA ITS38-1 ELSE ITS38-0. F EDF ENCHUNTERED IN RD36CH JTS-1 ELSE JTS-0.

PEAD (IPDR , 5 , END .. 113) To Ap E.R.

ELL 0102 LI-83.211.

109

CLISSH. EQ. LI GOTO 105

-1,1000

103

74174

SURPOUTINE CHABUT

THE STATE CHESTS

FDD4AT(3Y#PTIME SEC AZIN # HP MIN SEC#EX#HIME #MALTITIOF##/)

AZINI TOTA SITUATE SOLD ATT THE ATTENDED OF THE STREET OF THE STREET STREET

FFUMAT(FF.ODSDR2F7.30F7.0) FORMAT(ixyFio.202fio.302fi2.2031405f12.2) Format(ixySalu)

FORMATITY STREETS "BIZELX BASTES SKRWADDR TRACKING DATAR/)
FORMATITY ST NUMBERMAKKING SKRWADN NATEMALOF RUN TIME MAALO)
FORMATITY SALOF SKRWRCKFTSONDE WESKALOF SKRWOLFFERFNCK /MINUTEM)

PAGE

```
12Te
74/74
```

SUMPOSITION - 19ECH

```
KHEPBUTINE BOSSCH
CERMUN MAKALTAALAPPI ATALAPE ADDECHNIAFONZAHTPANIPATTONIUPATTONI
CERMUN INDARSALKATAALHAICAIDANITAMPANTOSATVENIATAKLAIAIROCK
COMMONIXYAMITAAAFAABIKAICAIDANIABILMAITAAAALAELAELAKAYAZ
                                                                                                                                                            1612TL STAN
```

```
PFAN(7,10,FND=30) (147(1),1=1,27)
[F(147(1),EG,1)GU TO 1
                                                                                         TIME TO SECUNDS
Tw(60*IPZ(2)+IRZ(3))*60+IP?(4)
IF(18*64*1)60 TO 13
02 01 05 (1.34.NE.31) 50 TO 20
                            D. D. G. J. F.
```

IF (T. LT. TIM) GO TO IL T=T+85400. 11 15

CONTINUE ELEVATION AND AZIMUTH ANGLES IF(NS.EC.9)GO TO E. DO 5 101,7

Par.0.0.18(1) 00 6 X-149 ٠

うんすい りじょんきゅう かすんりょうきゅうりきりょう みんみんんん りょうりょう じょうきょうしょう ちょういい いょうきょう のうしょう ちょうしょう しょうしょう しょく ちょう しょくしょう しょく ちょう しょうしょう しょく しょうしょう しょうしょう

A-12564-TP7(4) E-1256E+IP2(K) A-90.4A E=90°+6 K-19-1 22

PO 25 1-159

HES ETC. FOR T.A.E.P. DATA C----CONVERT SECS TO P=6,0*8+197(J) 11-T/34cJ. AA=11+3500 PETURN 3 9Ż

A A = T - 61





13 65 20 2

SUPPOUTING THE ALS

04/ca/14. 14.39.45

FIN 5.2+532

```
THENSE VEXALTS FPLSOALSTOLS OF STATES THE STATES FF STATES TO STATES TO STATES THE TRUNK AND HYDEN TO SERVICE TO SERVICE THE STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES AND STATES 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6010 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DC 130 J=1,24

IE {P.GT-PRAT(J)+GR-PELT-RRAT(J+1)}

PAT-(RRAT(J)-9)/(RRAT(J)-PRAT(J+1)}

P=FRES(J)-(PRES(J)-PRES(J+1))+RAT

GOTS 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PERF(ITALAEND=400) IN
IF (IGFTC(INAIS).EQ.R" ") GDTO 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JF (1GFTC(1Np.), NE.RM.") 6013 200
--- STEINHAPT EQUATION
DECODE(26,2,1N) A.B.C
DO 110 1-1,24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    READ(IT, 3, END-500) P. GT(I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NÖTFMP-C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8T1ME=T8=3600.+T0+60.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GT(I) SET (I) SETINE
                                                                                                                                                                                                                                                    DATA FRES/24%C.U/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DO 100 I-1,60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEAD(IT, 11 IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C-TRAICO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0-1/1/-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COLTINIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R=8/050.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IN-IA-TC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CONTINIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      THEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  051
```

TF (IGETC(INp.1).EC.pmom.and.IGETC(IMp.)).FC.pmom) 60T3 22U necone(1756.tn) rpes(1).prat(1) IF (P.GT.»PPAT(J).OR.R.IT.FFBJT(J+1)) GTTO 243 QAT=(R9AT(J)-R)ZIRRAT(J)-PPAT(J+1)) G=PFFT(J)-(PPFS(J)-FPFT(J+1))+AAT FFFEITT, 3,FN0=500) F,GT(I) GT(I)+GT(I)+ATIME ----LAYTON CLARK EQUATION DECODE(26+4-16) A.B.C PO 210 1-1,24 00 270 I-1060 DG 240 J-1964 PEAD(LT,1) CONTINUE 4=F/9E.). 012

Cote 250

TETP(I)=1/(A+(B+R)+(C+R++3))

6n70 50C

205

\$\(\text{A}\) \(\text{A}\) \(\t

.

6-164

ソンジン 一個なるのののとこれ

```
P4/3:/14. 14.39.45
FIN 0.14552
                                          CHREDITIES INTERES (DOMING FOR ALSOING DATA OF LASS ASSESSED FOR THE FORMAL FOR ALSOING DATA OF LASSES
                                                                                                    -----TAKT AT TOP LOOKING FOR FIRST GOOD TEMP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 (2HZ-ZLZ).6T.3606.160 TO 98
                                                                                                                                                                                                                                                                                                                                                                                                                                      104 TF(MSW-GT-2) 63 TO 105
IF(TAE9-999-9) 60 TO 109
60 TO 108
                                                                                                                                 PEFFICE FNP=99) GATAXAYAZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            F(T.F0.999.9)30 TO AUO
                                                                                                                                                 GATE 151
FF(MSW+Li-1) 63 TO 95
9ACKSFACF 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FF 40 (2) G, Tøxøyø?
FF (G, Eq 2 746 160 10 112
                                                                                                                                                                                                           READ(2)G.T.X.Y.Z
IF1G.F9.ZHG)GD_ID 97
 J.) | # C.
                                                                                                                                                                                                                                                                                                                                                                                                             105. WRITECLIGATAKATAZ
                                                                                                                                                                                                                                                                                                                                              107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100
                                                                                                                                     3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 307
                                                                                                                   6
                                                                                                                                                                                                                                                                                                                    111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           111
                                                                                                                                                                                                                                                         ÷
```

A-165

7.174 Calcini Tallingers

PAGE

ROCK 3

(THOUNDICHE BALTHUMANS

C----DOTE EALLISTC MOTION AND TEAPERING: FORDECTION (COMMIN) MAKELISTC MOTION AND TEAPERING; FORDECTION (COMMIN) MAKELISTC MOTION AND TEAPERING; FORDECTION (COMMIN) MAKELISTCALD FOR STATE THE TALEST OF THE SENT OF STATE THE TALEST OF THE TOWN (TOWN) THE TALEST OF THE

2 / G 0- ((13-17) /01)+08 GF . GPAT+9. EJ616 PT=63-61 0.655.T

VY = X2 -((72*((X3-X1) / DT VY = Y2 -((72*((Y3-Y1) / DT

XC=VX=X? YC=VY=Y2 V=\CqVT(Z\cdot2+XC+e2+YC+e2) IF (H\cdot2-\cdot0) \ \GUT 103 IF (H\cdot0-\cdot0) \ \GUT 103 IF ((T\cdot0-\cdot0) \ \GUT 103 IF ((T\cdot0-\cdot0) \ \GUT 103 IF ((T\cdot0-\cdot0) \ \GUT 103 IF (\Cdot0) \ \GUT 103 I

* BTC(1) * ((T3-T1)/DT) INIGHT . E Q. 11 AC = C TD(1) IF (42.6F.7000.) 1-1 SAMATC(I)+(V+V)

WPITE (1) H2, 22, VX, VY, X2, Y2, T. T. 103 168

AD.DTC (1)+T4

7. = Y2

62*C3 GU TO 100 11.12

REWIND A PEWIND 2 PETURN FNDF TLE]

101

PAGE

```
CONTROL OF A BRADE BY A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION OF A SECTION
                                                                                                                                                                        DIRENVITY AS INATIGATION DESTRICTATION (F.E.) PROPERTY OF PROPERTY (F.E.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRITE(61,9) IFIX(HEIGHT(J)), H(J), RSTMP(J), TMPNTF(J)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  READ(1) Z1+H>VX+VY-UX-UY-T1-UT
IF (T.GF.599..0K-T1.SF.999.) GOTO 131
IF (Z.LF.HFIGHT(1),AND.HFIGHT(1).LT.Z1) TJFN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WFITE(51,F)1TEST#NPC(IA)#IRDCK
WPITE(61,6) (NST(I)#IHIX#NS)#(INX(I)#IH2#10)
WPITE(61,7)NT#ND#MR(NM)#NY#(INX(I)#IH11419)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ITEN.EQ.OM66m.OR.ITEN.LT.OM33m) | | MUL-1
(ITEN.LT.OM33m) | ITEN.ITEN-OM11m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IF (ITEN.GE.Om33**) ITENETTEN-D**33**
RSTMP(I)**((TMP*10.+FLNAT(ITEN))*IMUL)/IO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IF (IN(I), EQ.*TERMINATIO") GOTO 110
DECNDE(41,3), IN) HGT, TMP, ITFN, RPR
IF (HGT, LT, 20000.) GOTO 105
HEIGHT(I)-HGT
                                                                                                                                                                                                                                                                                                                                                                                                                              PEAD(M250,10,END+999) INX(1), INX(2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 E (HEIGHT(1), GE. 71) GOTO 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEAR(MELGAL) (INX(I), 1-3, 14)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FAC(1) ZAHAVXAVYAUXAUYATAUT
                                                                                                                                                                                                                                                                                                     666 01(0 (T*0+*8kalak) 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R(J)=T-4AT+(T-T1)-273.15
TPPDIF(J)=H(J)-RSTMF(J)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PAT= (2-HEIGHT(J))/(7-71)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (1.LT.10) 60T0 999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ITEN.EQ.D"66")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DD 120 I=1,1000
PEAD(1,END=130)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RFAD (#25622) IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            140 [-1,KIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100 1-1,41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4RITE(61,0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AACKSPACF 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4011E(61.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACKSPACF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BACKSPACE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CONTINUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ڊ
د ع
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      132
```

(J.61.41.PP.4EIGHT(J).t4.0.0) GNTP 150

では

●

には

した

には

には

には

には

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に

に<br

84/03/14. 14.35.4F

J. 1 4.

74174

UNPOTITE CIPPESE

```
"I" IL " IL " IL " I TEMPERATURE COMPARISON " ROCKETSON E" 24 X " " RAMINSONDE" / I
                                                                                                                                                                                                                                                                                                                     FORMATION TEST NBR "AISO" ROCKET "AALOAZXAALOS
                                                                                                                                          4.((FRAT*(PE+48L)/(PE+HBL))+5.)/10.
                                                                                                                                                                                                                                                                                            FORMAT (F6.0214x2F2suer) 212X2E62)
                                                                                                                                                                                                                                                                                                                                                                                 FIRMAT ( "0000 9999-959")
                                                                                                                                                                     ITE (3,12) TH, IP, IT
                                                                                                                         41 .PSTMP(K)+273.15
                                                                                                                                                                                                                                                                          FOPMAT(//844/PA4////
                                                                                                                                                                                                                                                                                                     FORMAT("1", 11X,"+ +
                                                                                     1-A+ARS(TMPNIF(1))
                                                                                                       IF (A.LE.2.5) THEN
181 =HEIGHT(K)
                                                                                                                                                                                                                                                                                                                                                                                           FORMAT (14, 15, 14)
                                                                                                                                                   P-PBL+100.+.5
                                                                     140 ISKOKK
                                                                                                                                                                                                                                                                                                                               FURMAT(" ",3
                                                                                                                                  OBL - PPPSIK)
                                                                                                                                                                                                                                                                                                                                                                          FUP447 (244)
5010 132
7=71
                          John Lt. . .
       131
                           14.
                                         15.0
                                                                                       160
                                                             $ 2.7
                                                                                                                                                                                                                               666
```

```
PERO(1) - 4(1) F(1) + 4(1) + 4(1+4) + 4(1+4) + 0 x(1) + 1(1) + 1(1) + 0 x(1) + 1(1) + 0 x(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) + 1(1) 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ΨΕΊΤΕ (2) Η(1), Ε (1), Χ (1), Υ (1), ΟΧ (1), ΟΥ (1), Τ (1), ΟΤ (1), ΣΕΡΕ [1], Σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WRITE(2) H(1), F(1), SX, SY, UX(1), UY(1), T(1), UT(1)
12 (1) 3) g Kh (1) g K (1) g L (10.1)
f a (10 5) g Kh (6) g K (10 g K (10.2)
f(1) g E (5) g (10 5) g (y K (10 5) g (T (1) g 6(1))
                                                                                                                                                                                                                REFF(1) HAFFAFK(1),Y(1),UXA,UYA,TA,UTA
HJTE(2)HA,FA,K(1),Y(1),UXA,UYA,TA,HA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            XC(15J) = YC(15J-1) # I

VC(15J) = YC(15J-1) # I

DC 9C 1=123

DC 9C 1=123

AA(15J) = YA(15J) = O.

PC FC Y=125

XA(15J) = YA(15J) + YC(K2J) + YC(K2J)

YA(15J) = YA(15J) + YC(K2J) + YC(K2J)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IF(X(I), E4, 999, 9) SF IJ 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SX=25.4XH(3)+5.4XB(2)+XB(1)
SY=25.4YH(3)+5.4YR(2)+YP(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          XP(I)=X9(I)+XC(K±I)+X(K)
YP(I)=Y9(I)+YC(K±I)+Y(K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           x(([,1)=Yr([,1)=1,00] 70 J=2,3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CALL SIMO(XA, XB, 3)
GALL SIMO(YA, YB, 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PFWIRD 2
PP 200 1=1#1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     YR(I) = YR(I) = 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     50, In 110
5 x=5 y=999.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Y(1)*Y(1+1)
NO 14c I=1,4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F(1)*F(3)
(x(1)*HX(3)
(Y(1)*HY(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T(T)=T(J)
UT(1)=UT(J)
GC TO 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     200 CONTRUC
201 1=1-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FFFIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ٦,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>ح</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3
                                                                                                                                                                                                                                                                                                                                                                                         3.0
```

34/00/144 14.39.45 DD 202 JH10 I AACK SAC. 2 AACK A-171

74/74

COMPONENT PARALITERALITE DELETELE FOR CONTROL MONTRE PARALITE PUR TENTE PARALITE PAR ACDSIDE BLEEFERSON 6.924 Idi

9 ft (1) 49 fp xp fp UXp UYp Tp UT 4] = GPAT# ((PE+H) / (PF+H)) 1F (HFL = LL = H) GJTC 10 WPITF(2) H5 X5 Y5 UXp UYp Tp UTp PPL pF

IF ((4-49L), LE. 3000.) GOTO 101 KS4-1 GOTTO 1CO IF(H3L.FQ.H)GO TO 101 T=K > le l <u>ئ</u>

JF(P9L_GT_99*)GD TD 109
PFL=ALNG10(P9L) PAL . THL . 939.9 6.666--3

HP-GRAT#((RE#JBL)/(RE+HBL)) WRITE(2) HPL+Xx Yz UX±UY#T±UT±PPL≠F IF(IPLSW-EQ-1)BACKSPACE 1 TP-TRL K C V = 1 531

Lub READ(12END-99142F2XxY2UX2UY2T2UI IFIKSW.EQ.1160 TO 107

HI=GRAT#((@E#H)/(PE#H)) IF (T.NE.909.9.AND.TP.NF.999.9) GOTO 105

(*PPL-((HI-HP)/(PC+TV)) 60 TO 107 TV=(T+TP)/2. le = ldd TH- dh 105

WPITF(2) HexeYeUXeHYeTeUTePLeF GOTO 108 FNOFILE 2 DENIND 1.)7 90

FFFINE 2 FFT128

W 2 . 7 . 7

CITANAMIUTINE INCHITATIONS

PAGF

```
CONTROL MANAGETS AND APPLATALATE POLICIONO PONO PONO PYTO PERCENA PANAGET CONTROL SENT PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET PANAGET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FCEMATILM »14,4% aHZ »12,1% »A4,14% b1%»//
WPITE(2,18)NRC(IA),1ROCK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VRITE(2,7)ITEST
7 FOFFAT(16H TEST NUMBER
PRITE(2,8)(NST(1),1=IX:NS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FOPMAT(1H , A10,2X, A10,57X)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         UPITE (2,9)NT,ND,MO(NP),NY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1F(NSW. FO. 2) 60 TO 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FORMATCIM . 3410145X)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HINTELCO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WRITE (2,4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 115 WRITE(2,5)
107 WPITE(2,2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           114
```

GO TO 109 FFAP(1. FFL = 99) HB , XB , YB , UXA , IIY A , TB , UTA , PA , FA GN TO 102 CALL NUTPUT(HS,XR,YB,TR,UTF,PB,FB) IF (HS, FO, HR) GO ID LUL <u>ب</u> 2 101

105

IF (45.LT.HRIGP ID 104 X=VALUE (PAT, XA, XB) Y=VALUE (VAT, YA, YR) T=VALUE (HAT, TA, TA) : 35 104

A-173

READ(1)HAPKAPYAPUXAPUYAPTAPUTAPPAPFA IF(HA-LT-1-) 60 TO 1 HA-HAFCONZ CALL DUTPUT (MA, XA, YA, TA, UTA, PA, FA)

6. 666 dIX

HS={(14/1000)*14Cu)+HINI JF(HS-GT-4A)GD TO 103 HS=HS+HINI

901

£0.7

JH-HSP-1A

Sevelor (1775)			(21.4.11.							
CALL "TY (TEAT, FERF) GALL "TY (TEAT, FERF) 4" HEALTH TO CONTROL			() , ()							
######################################		F = V & L ! ! . !	(2467)							
73 47 47 47 77 47 47 47 47 47 47 47 47 47			Cattalla Va Ya Ve)	-						
######################################		•/		•						
### ##################################		C2 T1 100								
CALL BUTCUT (HS.XX., YA. TA. UTA. PA.FA) WANALT = 4 & XALT = CALT WANALT = 4 & XALT = CALT WANALT = 4 & XALT FUNCTILE 2 BFWIND 1 IF (NSW. GT. 1) GJ TO 112 HIVT = 106 GO TO 123 GO	C.F	47.07								
######################################		- 1	HS. XA. YA. TA.	TANAT	(9					
FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 9 FUILD 1 1 FUNCTILE 2 1 FUNCTILE 2 9 FUNCTILE 2 1 FUNCTILE 3 1 FUNCTILE			LTetans	•	•					
FUND 1 FUND 1 IFUNSW-6T=1) G3 T0 112 HTVT=250. CD T3 105 IFUNSW-6T=2) G9 T0 113 HTVT=1000. CDN2=3.240833 CG N1 1.942509 CDN2=3.240833 CG N1 1.94 FORMAT(144) FORMAT(754) GEOMFT DEG MPS K CORR MBS G/M3 C PS HPS /SEC) ENDRAT(764) GEOMFT DEG KTS K CORP MBS G/M3 C PS KIS /SEC) ENDRILE 2. REWIND 1 PETURN 2 REWIND 2 REWIND 2 REWIND 2		(VHI) SITEROR	Y) = M A X A L T							
IF (NSW-GT.1) GJ TO 112 IF (NSW-GT.1) GJ TO 112 IF (NSW-GT.1) GJ TO 112 IF (NSW-GT.1) GJ TO 112 IF (NSW-GT.2) GJ TO 123 IF (NSW-GT.2) GJ		C SILL ON S	•							
IF(NSW-6T*1) G3 T0 112 HTVT=250. AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 105 AT 7 106 AT 7		PENTAN :								
######################################		TELECTION	21. 01 63 1							
T		THE POST OF STREET	717 01 65 1							
17 105 17 105 17 105 17 105 17 1000 18 10000 18 100000 18 100000 18 100000 18 100000 18 100000 18 1000000 18 10000000000		*0.00 T								
12 If (NSP, GT, 2) GT TD 113 HINTELDON GCN1=1.942509 GCN2=3.240833 GT TD 104 FORMAT(24) FORMAT(74) FORMAT(74) FORMAT(74) FORMAT(74) FORMAT(74) FORMAT(76)		GP 17 105								
HINT=1000. CIN1=1.942509 CON1=3.240833 CON2=3.240833 CON2=3.240833 CON2=3.240833 CON2=3.240833 CON2=3.240833 CONNATITH	771		67 TO 143							
COND=1.942509 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.240833 CONZ=3.24083 CONZ=3.										
CONZEGLED 833 CONTEGLED 10-4 FORMATICH 1		CPN1=1.9425c	6							
CONTITUTO PRESS DENSITY C RF VS SHR) FORMATITAL GEORF DEG HPS K CORR NBS G/M3 C PS NPS /SEC) FORMATITAL GEORF DEG KTS K CORR NBS G/M3 C FPS NPS /SEC) ENOFILE 2. REVIND 1 PETURN 2		CDN2=3.24083	33							
FORMATION ALT DIR SPD TEMP PRESS DENSITY C RF VS SHR) FORMATION GEOMF DEG MPS K CORR MBS G/M3 (MPS HPS / SEC) FORMATION MPS / SEC) FORMATION MPS G/M3 C FPS KIS / SEC) FORMATION MPS G/M3 ENDILE 2. REVIND 1 PETURN		GO 19 104								
FORMAT(74) FORMAT(754 ALT DIR SPD TEMP PRESS DENSITY C R VS SHR) FORMAT(754 GEOMFT DEG MPS K CORR MBS G/M3 C PPS / SEC) FORMAT(764 GEOMFT DEG KTS K CORP MBS G/M3 C FPS KIS / SEC) FORMAT(764 GEOMFT DEG KTS K CORP MBS G/M3 ENDITE 2. REWIND 1 REVIND 2 REVIND 2 REVIND 3	3									
FORMAT(75H ALT DIR SPD TEMP TEMP PRESS DENSITY C RF VS SHR) FORMAT(76H GEOMFT DEG MPS K CORR MBS G/M3 C PPS HPS /5EC) ENPHAT(76H GEOMFT DEG KTS K CORP MBS G/M3 C FPS KIS /2EC) ENDFILE 2. REWIND 1 REVIND 2 REVIND 2	2	C HTILVW dU s								
EDRALIZATION NBS 6/M3 EDRALIZATION NBS 6/M3 C MPS HPS /SEC) EDRALIZATION MBS 6/M3 C MPS HPS /SEC) EDRALIZATION MBS 6/M3 C MPS HPS /SEC) ENDRING BEWIND 1 PEVIND 2 PETURN	J	FORNAT(75H	ALT DIR		184P	TEMP		DENS1TY		
FORMATITAL GEOMM DEG MPS K CORR MBS G/M3 FORMATITAL GEOMFT DEG KTS K CORP MBS G/M3 C. FORMATITAL CORP. ENDFILE 2. REVIND 2. PETURN PRILIPA		N	C XHX							
ENRMAT(764 GEOMFT DEG KTS K CORP MBS G/M3 C. FPS KTS LSEC) ENDFILE 2 REWIND 1 REVIND 2 REVIND 2	ur,	FURNATION.	GEOMM DEG		¥	8 8 0 0	3.6 8	6/N3	į	
ENDFILE 2. REWIND 1. REVIND 2. RETURN		FORMAT (764	GEOMFT DEG		¥	CORP	MES	6/43		
ENDFILE 2. REVIND 1 REVIND 2 RETURN		C. EPS KTS	S (SEC)		1			•		
REVIND 1 REVIND 2 RETURN 2										
REVIND 2 RETURN	£ 7 7	ENDFILE 2.								
PFWIND 2	÷	REVIND		:	1					
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		PEKIND 2								
		K L L L W N								

SUBATINE PLITTING PATPS DATEL

```
245
                                                                                                                                                     240
                                                                                                                                                    215 220 225 230 235
240 285 290 295 4561
                                                                                                                                                                                                                                                                                                                              F(HS .ET. 74600.) 60 TO 103
Supprograms PLOTCH
OTHERSTON IN(*), (CT(20)
METTE (*...*05)
                                                                                                     FORMAT(14 #8A1U)
WPITF(51#3)
FORMAT(14 )
                                                         00 100 [=1,4
9EAD(2,1) IN
VETT (51,2) IN
FFPMAT(-A10)
                                               DEWIND 2
                                                                                                                                                                                                             210
                                                                                                                                                                                        203
```

14/05/14. 14.39.45 FORWAT(PALU) FORWAT(//pm HAXIMUW ALTITURE "PLED" GFORMM) FORWAT(MIM) FORWAT(//pm HAXIMUM ALTITUSE "PLED" GERPETH) IF (N.NE.3) WRITE(61,2) MAXALTS(N)
JF (N.FO.3) WRITE(61,6) MAXALTS(N)
WRITE(61,3) SUFPRINT PUTBUT (48XBLTS) IF (N.6T.3) RETUPN CLDSE(2.STATUS**KEEP*) DPEN(2.8UFL=512) CNTO 100 MRITE(61,1) IN 4RITE(10,1) IN 7-17-110

PAGE

2,047.5 <10

SUPPLICATION OF THE AMERICA

31mtx1 f1h; 44(20) 44(50) 44(50) 44(50) 44(50) 44(50) 44(50) 44(50)

(37) +1 + (30)

FIDMAT (PALL)

FFWING 1 PEWING 2 6*666-13

START HAMDATI

PFAD12a51IN

86

COMPUTE 1000 HETER DATA AND PICK SIGNIFIC. NT LEVELS

H4(I)=X4(I)=Y4(I)=UX4(I)=UY4(I)=T4(I)=UT4(I)=P4(I)=P4(I)=F4(I)=G*C

18 G G I P = 1 E 2 D = 17 = 1 20 51 1 E 1 2 D =

11) GD TO 12 (7F MIN AND MAX TEMPERATURE a(Tala) GD 10 92

ROCK 3

1X=14 +L=NH

\$1 • I \$2 • 1) 6H-16

7-141000

F(T4X,GE,T4(1)) 60 TO 13 H1-HL+1000

F(TMN.LE.T4(11)) GO TO 15 HX=T4(1) 13

IF(H4(I).6f.H1) 60 TO 30 CONTINUE HA-T4(I) 4

IF (IFLAG.FG.3.AND.ICNT. CT.1) GU TO 41 F(151.LT.152) GD TD 16 F(151.E0.152) IFLAG-ICNT-3 MIN TEMPERATURE ROUTINE IF(IF(AG.FO.1) ON TO 52 52

I+(IT.fq.1) GU TO 28

[T-152

IF(ISZ₈E0.1.0K.ISZ.E0.1) GD TD 27 IF(ICNT.GE.1) GD TD 29 GD TO 1F

Call An 52152 *COST - TRIDESPES

いいいいいいとしているのかのできる。

```
-- SELECT SIGNIFICANT LEVEL

4 nn 50 TP=TREG, LEND

TX*(H4LIP)-H4(IB))2(H4(III)-H4(IB))

TP=TX*(T4(IP)-

TT=ABS(TLP-T4(IP))

IF(IP.EQ.I) 60 TO 50

IF(IP.GE.2.) 60 TO 40
                                                                                                                                                                                                                                                                  IF(T4(TP),GT,998,) GN TO 41
IF((APS(T4(LP)-ST)),LT,2,) GN TO 41
CALL CORIT
                                    IFIAGE2
JFITS1.F0.1.nk.IS1.F0.1) GC TU 17
IFITS1.F0.1.6F.1) GO TY 24
for TY 14
for TY 24
for TY 29
                                                                                                                                                                                                                                                                                           ST=T4(IP)
IF(NT-GF_2.) CD TO 54
IF(NS1.6T=17) IEND=IT=IS1
If(IS2.GT=IT) IEND=IT=IS1
If(IS2.GT=IT) IEND=IT=IS1
If(T5.WE.I) GT TO 52
                                                                                                                                                                                         IF(H$(IP),GT.41) GD. TO 53
H=44(IP)/10.
                                                                                                                                                                                                                                                                                                                          IF (TREG.FO.1) GRED 53
                                                                                                 IPEG=IEND
IB=IP
                                                                                                                                                                                                                                                (AI) 5) (IE)
                                                                                                                                                                                                                                                      HY#UY4(TP)
                                                                                                                                                                                                                                                                                                                                       UNJI = Jod 1
                                                                                                                                                                                                           Y = Y + (IP)
Y = Y + (IP)
P = P + (IP)
F = F + (IP)
                                                                                                                                                                                                                                          [-14(IP)
                                                                           T=9381
                                                                                                                                                                 9
                                                                                                         2 B
                                                                                                                                                                            Ç
                                                                          Œ
                                                                                     31
                                                                                                                                                                                                                                                                                      7
                                                                                                                                                                                                                                                                                                                                       25
```

```
04/01/14. 14.39.45
intell collinates
```

```
<u>GEAD(11HLaxiaylaukiauyiatiautiapiafi</u>
PEAD(12eND=106)H2sx2ay2aux2aux2aux2aut2aut2apia
IF(Pi.6E.999a) GO TO 104
0170JT #36.0873WY LEVEL
0#T=(41-44(10))/(44(12-1)-44(12))
                                                   X=VALUE (AAT=X4(IP=1) = X4(IP))
Y=VALUE (RAT=Y4(IP=1) = Y4(IP))
T=VALUE (RAT=T4(IP=1) = T4(IP))
T=VALUE (RAT=T4(IP=1) = T4(IP))
UX=VALUE (RAT=CA(IP=1) = U4(IP))
UX=VALUE (RAT=U4(IP=1) = U4(IP))
UX=VALUE (RAT=U4(IP=1) = U4(IP))
UT=VALUE (RAT=U4(IP=1) = U4(IP))
                                                                                                                                                                                                                                                                                                                                                                 READ(I) HAXAY UND UY TO UT AP OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IF (PL(1) .61. P1)60 TO 102.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IF(PL(J).1E.P2)6J TO 1C4
                                                                                                                                                                                                                                                                                                        DUTFUT LAST DATA POINT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              441-(PL(J)-P2)/(P1-P2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T = VALISE (PATATLATZ)
PT=VALISE (MATAUTZ)
                                                                                                                                                                                                             IF (IP.EQ.JP) GO TO SP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Y=VALUE (MAT, Y1, Y2)
I'X=VALUE (MAT, UX1, UX2)
UY=VALUE (MAT, UY2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X=V/LUE (FATANIANE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 H= 1 T = ( H) -H > ) +H >
                                                                                                                                                                                                                                                                                                                                                                                                                                                                STAPT CPLEVELS
                                                                                                                                                                                                                                                                                                                                                                                    = 4.7 10.
                                                                                                                                                                                                                                                                    BACKSPACE 1
                                                                                                                                                                                                                                                                                                                             MACKSPACE 1
                                                                                                                                                                                                                                                                                                                                                SACKSPACE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GP T7 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO TO 101
                                                                                                                                                                                                                                                                                         50 TO 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UY1=11X2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.Y1=UY2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1,03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 C 4
                                                                                                                                                                                                                                                                                                                             16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1:1
```

A-179

26.25

167

7.3

34/LE/14. 14.39.45

244+744 744

76 JOT.

Cotal arthe size

FAVALUE (PATAFLAF2)

appoint to the

CALL COSIT CALL COSIT COSIT OF PETEND 1 CALL FORAGEN

105

F+/0F/116. 14.30.45 FIN Seatond 3F Tau 71152

EUFWOUTINE COBIT COMMINICIONOL/HydamakauxauxyfaUTyfaf Ofmenston, 15f4)

501 701

P.LT. 499.1 PS-1044P VA= 331.45+5 QPT (T/273.15) T-273.15 101 109

A-181

Tides Filteries

PAGE

54/05/14. 14.39.45

· T' > . . + . . .

36 T .

41141 Troop Richard

CHAND BEZON LICEROCA INTAKON

04/05/14. 14.39.45

TN 5.1+552

EURODUTINE ENDAMIN COPHO! MEXALIDAMIDPRIDTOLOTOLOPEDED CONTRACONTIDATIONITENTENTOLOP CRYDATAMIDEN DI INDIED TO TO TENDER OF INCENDINK (15) DIREK

((45+300).6f.42) 60T0 110 = (42-45)/(42-41) AT+(Y1-Y2))+Y2 RAT+(UX1-UX2))+UX2 RAT+(UX1=UX2))+UY2 PAT+(X1-X21)+X2 (T1-T2))+T2 7-174 JPTeJ (H1/1000)+1000 TAL BALTHERINE 200 د 1 م 133 TAL MITOLISHUA C1.7

WRITE(1) HZ#KZ#YZ#UKZ#UYZ#IZ#UTZ#RZ#F? ENDFILE 1 REVING 2 FFTUPN FND £656

PAGF

```
#4/Lc/34. 34.39.45
                                                                                                                                                                                           SUBPOULTING WICH
CHAWIN MAXALIS HUSPELS INLUDES NOUT INLUDING WED WIPS WIPS ITEXTONNOUNDS
F NVS HID INCOMES INDIANIUS INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES INCOMES 
            2474745 113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C---- RET POSITIONED AT BEGINNING OF THE 1000 METER DUTPUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMMON/FRES/FL(35)
INTLSFE H47TT(LOU), DOFFE(100), NOPPP(110), 44,70, FFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --- GET LIWEST DATA POINT WITH DIR AND SPD AVAILABLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       READ(LUM-1.01. END-27) HH, DD, FFF, TT, PPP
IF (DD. EQ. 999. AND, FFF. EQ. 999. AND, TT. EO. 999. 99)
                                                                                                                                                                                                                                                                                                                                                                                            COMMON GPATOZATO IALOINTO INPOLENDIO CONTO INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              READ(LUN-1001) HHADDEFFAITEPP
CHECK FOR FIRST GOOD LEVEL
1F(DD-E0-999-0R-FFF-E0-999) GO TO 150
RACKSPAGE LUN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IOND(A) = IFIX(SIGN((APS(A)+.:)+A))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GEOMM "1 GOT 0 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FDRMAT(1X,17,216,F8.2,17X,F9.4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .) 6010 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FPRMAT(12.2012012.202X)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FORMAT ("9", [1, 13.3, 1X)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IF (IHH.NF.O) GOTO 27
IGENIP-IGPQUP±1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FORMAT (12.2.13.3.1X)
רשן מר
שומר
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HH-MOD (44, 1000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FUBMAT(12.2, "///
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FORMAT("//// ")
      46146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FORMAT (ALD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MUDWAT ( "
            Edd' & Fillibents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20001
```

A-185

JF (DD.GT.998.DP.FFF.GT.998) GOTO 220 IF (DD.GT.360) DD-0D-360

MOMETRY DESTRUCTION OF THE CONTROL O

(SeleHHZTT(IGRAUP)) IMELZELT

GOTO 210 INCODECED 20 HHZTTCIGEOUP)) IN

2007

PAGF

```
JWMPKM - PPP+134+19++5
FWCDDE(6±5,NMPPP(IGPOUP)) IP,1409KD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PPP. GF. TESTP) GUTO 260
COTE 230
EPCON (O.4.POFEFTIGKEUF))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENCODE ( N. J. S. J. S. P. L. S. P. D. P. D. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. P. J. S. 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1F (000,6T. 990.) 6918 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     260
```

T=(IHP*10)+(MIN/10) IF(MIN.GE. 6c) MINEC 27 MIN-MODINT, 100) IHRENT/100 NTIND= 24794

NYY = NY-1000 WRITE(61,200U2) ND,NT,NM,NYY,INTIND,141,JUN1,JKT,JMR,JND,

C. IEWALCHALING.
WRITE (ICDAZODOZ) NDANTANNANYALNINDA IAIAINDIATKIAINRAINDA
C. IEWALCHAINA WRITE(61, 20001) (HHZTT(K), DDFE(K), NDPPP(K), KEL, IGROUP)
WRITE(ICD, 20001) (HHZTT(K), DDFFF(K), NDPPP(K), KEL, IGROUP)
STANDAPO MANDATORY LEVEL DATA

CALL MANDE

4917E161,200031. RET(19N FND

PACF

15 T.

```
SET CUNSTANTS
DATA ISIG/PHILMPRM22MPRM33MPRM44MPRM45MP4M66M/
                                                                                                                                                                                                                                                                                                                                                 KFAD(1,FHD-25U)HZxX2xYZvUX1,VY1,xT2,UY1,xP2,F1
TF (P1,6E,999,) GOTO 104
                                                                                                                                                                  READ (1) HIRKLAYLAUKLAUYLATISUTISPISEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1+ (P2 , GE, 990.) 60 TJ 100
T=T=273.15
                                                                                                                                                                                                                                                                                                                                                                                                         60 TO 101
IF (PL(J).6T.P2) 60TO 105
                                                                                                                                                                                                                                                                                                                                                                           IF (PL(J).LE.PL) GOTO 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  h=uSph(x,y)
(x.LT.999.) GnTfi 2.2
7 = SPh = 99.9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IF (T.(T.043.) GOTH 20P
                                                                                                                                                                                             SIGNIFICAMT DIGIT TABLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4AT=(PL(J)-P2)/(Pz-P2)
                                                                                                             FORMAT(P2,11,12,2,1X)
F29441(42,1// 4)
                                                                                                                                       FORMAT(12.2013.301X)
FORMAT("//// ")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VALUE (PAT, X), X2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VALUE (RAT, T1, T2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VALUE (RAT, Y1, Y2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMON/PRES/PL (35)
                                                                      CENTAL NOISE HELD
                                                                                  DIMENSION 1916(5)
JOAN SALTHEACHS
                                                                                                                                                                                                                                                                FF + 1 ND 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -WDIR (X.Y
                                                                                                                                                                                                                                                                                           201 (4) - 10H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *6665*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Y1=Y2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-12
                                                                                                                                                                                                                                                                                                                                                  100
                                                                                                                                                                                                                                                                                                                         ---3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                208
                                                                                                                                                                                                                                                                                             2
                                                                                                                                                                                                                                                                                                                                                                                                                       103
104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ۲'n,
                                                                                                                                                                                                                                                                                                                                                                             161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            202
```

•

```
F (100.LT.995.AND.ISS.LT.959) GDTD 234 NCEDE(6±4.DUI(M)).
                                                                    II = -II
FNCORF(6,1,0UT(M)) ISIG(JS),4A,II
                                                                             62TC 224
ENCONE(6,2,00T(M)) ISIG(45)
M=M+1
                                                                                                                                                                                                                                                                   U4]TF([CD») (NUT([)»]=1»4)
PP]TF(+1»5) (NUT([)»]=1»4)
RFWIND 2
EFTUDN
                                                                                                                                                                                 F (IDD.FG.U) IDD.36
ENCONE(6,3,0UT(M)) IDD.ISS
                                                                                                                                                                                           JF (EPF(1).NE.O) GOTO 252
GTTD 104
                                                                                                                                            NCODE (6x3x0UT(M)) IPS#IH
# M+1
                                                                                                                                                                                                               IF (PL(J).NE.Pl) GOTO 252
42.41
                         IF (IT.LF.93) SATE 217
                                                                                                                                                            . (DIR + 5.) / 10
                                              F (IT, LE.C.) 6019 229
                                                                                                                                                                                                                                                         IF (4.EQ.1) GO TO 296
                                    33.4-11
21 ±
                                                                                                                                                                                                                                             SG TO 105
                                                                                                                                                                                                                               Y2=Y1
T2=T1
P2=P1
                                                                                                                                                                                                                                                   252
                                                                                                                                                                                                          250
                                                                        512
                                               217
                                                              519
                                                                                  221
229
                                                                                                                                                                                234
                                                                                                                                                                                                                                                                             290
```

ROCS 3

SECTION B

METEOROLOGICAL SOUNDING SYSTEM (MSS) DATA GENERAL NOVA-3/12 FORTRAN V ROCKETSONDE PROGRAM

(ROCS 3)

ROCS 3

^اك ه.

ABSTRACT

The MSS rocketsonde reduction procedure is designed for use with transponder sondes only, such as the PWN-10A. It consists of two programs, Pass 1 and Pass 2.

This document is divided into two self-contained sections.

Pass 1

Pass 1 of the MSS rocketsonde reduction procedure reduces the wind and temperature data recorded by the MSS realtime program. Output options and surface data are entered by the operator from the display console. This pass produces quality control data, constant altitude data, and two disk files.

Pass 2

Pass 2 of the MSS rocketsonde reduction procedure extracts the HAMDATA levels from the intermediate scratch file and the co-rawinsonde file. This pass uses the 1,000-meter constant altitude file and the intermediate scratch file to produce the ROCOB coded message.

1

PASS 1

1.0 Module Description

1.1 Main Routine

Initializes the various control and conversion constants, reads in rocket data from diskette to scratch file, and controls the flow of data through the subroutines.

1.2 Subroutine MIDINT

Computes the midpoint of altitude layers and calculates uncorrected component winds and fall rates for the layers between data points.

1.3 Subroutine BANDTC

Computes ballistic motion corrections for correcting winds according to Eddy (Reference 2 in Bibliography). Temperature corrections are computed as described in FMH 10, Section E of Appendix I.

1.4 Subroutine TWOKM

Smooths component wind data over 2-km thicknesses, producing 2-km mean thickness winds.

1.5 Subroutine SIMO

Uses a least squares method of smoothing, providing a best fit of the components by generating a second degree polynomial equation in general form.

1.6 Subroutine PRESCOM

Converts geometric altitude to geopotential units, computes mean virtual temperature, and computes atmospheric pressure using a standard form of the hypsometric equation.

1.7 Subroutine ONEKILO

Rearranges data in a 1-km array and computes maximum altitude recorded by the sounding.

1.8 Subroutine OUTPUT

Computes pressure, density, and velocity of sound, and formats tabular data for output.

1.9 Subroutine PLOTCH

Formats temperature data for the printer; plots temperature versus altitude as an aid to quality control.

1.10 Subroutine COMPXYZ

Computes X (east-west component), Y (north-south component), and Z (altitude) as well as an elevation angle correction for the Earth's curvature.

1.11 Subroutine GRAVITY

(1) B. こうたんだから、B. こうこうにんらい B.

Computes the ratio of the station's acceleration of gravity to the acceleration of gravity at 45 degrees latitude, using the expression given at the top of Table 168, Smithsonian Meteorological Tables. List 1968.

1.12 Subroutine COMPRSR

Computes and tabulates the differences in temperatures from the co-rawinsonde observation and the rocketsonde observation in the overlap region.

1.13 Subroutine CHKOUT

Computes and tabulates the differences in the parameters between data levels as an aid to quality control.

1.14 Function IGETC

されたのでものできないのであるというできない。

Retrieves a character from a word or an array of words.

1.15 Subroutine PUTC

Inserts a character in a word or an array of words.

1.16 Function WDIR

Computes wind direction in meteorological polar coordinate system.

1.17 Function WSPD

Computes windspeed using velocity components as input data.

1.18 Function VALUE

Interpolates for a value or sets missing data to nines.

2.0 MATHEMATICAL DESCRIPTION

2.1 Main Routine

None

2.2 Subroutine MIDINT

2.2.1 Computation of Mean Temperature of Two Adjacent Levels

$$TP = (T + TA)/2$$

where TP = mean temperature (degrees K)

T = temperature, upper level (degrees K)

TA = temperature, lower level (degrees K)

2.2.2 Computation of Mean Height of Two Adjacent Levels

$$H = (Z + ZA)/2$$

where H = mean height (meters)

Z = height, upper level (meters)

ZA = height, lower level (meters)

2.2.3 Computation of Mean Time of Two Adjacent Levels

$$GG = (G + GA)/2$$

where GG = mean time (seconds after launch)

G = time, upper level (seconds after launch)

GA = time, lower level (seconds after launch)

2.2.4 Computation of East-West and North-South Velocity Components

$$V_{\mathbf{Y}} = (X - XA)/(GA - G)$$

$$V_V = (Y - YA)/(GA - G)$$

where V_X = east-west velocity component (meters/second)

 V_V = north-south velocity component (meters/second)

X = east-west position component, upper level (meters)

XA = east-west position component, lower level (meters)

Y = north-south position component, upper level (meters)

YA = north-south position component, lower level (meters)

G = time, upper level (seconds after launch)

GA = time, lower level (seconds after launch)

2.2.5 Computation of Fall Rate

$$V_7 = (ZA - Z)/(GA - G)$$

where V_Z = fall rate (meters/second)

ZA = height, lower level (meters)

Z = height, upper level (meters)

GA = time, lower level (seconds after launch)

G = time, upper level (seconds after launch)

2.3 Subroutine BANDTC

2.3.1 Computation of Local Acceleration of Gravity

 $Gr = GRAT \cdot 9.80616$

where Gr = local acceleration of gravity

GRAT = ratio of local acceleration of gravity to acceleration of gravity at 45 degrees latitude

9.80616 = acceleration of gravity at 45 degrees latitude

2.3.2 Correction of East-West and North-South Velocity Components

$$V_{X_C} = V_{X_2} - \frac{\left\{ V_{Z_2} \cdot [(V_{X_3} - V_{X_1})/(G_3 - G_1)] \right\}}{[(V_{Z_3} - V_{Z_1})/(G_3 - G_1)] + Gr}$$

$$v_{Y_C} = v_{Y_2} - \frac{\left\{v_{Z_2} \cdot [(v_{Y_3} - v_{Y_1})/(G_3 - G_1)]\right\}}{[(v_{Z_3} - v_{Z_1})/(G_3 - G_1)] + Gr}$$

where V_{X_C} = corrected east-west velocity component

VYC = corrected north-south velocity component

1 = upper level

2 = intermediate level

3 = lower level

 V_X = east-west velocity component

 $V_{\mathbf{Y}}$ = north-south velocity component

 V_7 = vertical velocity

G = time after launch (seconds)

Gr = local acceleration of gravity

2.3.3 Computation of Ventilation Velocity

$$xx = x_{X_C} - v_{X_2}$$

$$YY = V_{Y_C} - V_{Y_2}$$

$$V = \sqrt{V_{Z_2}^2 + XX^2 + YY^2}$$

where

V = ventilation velocity

 V_{X_C} = corrected east-west velocity component

VYC = corrected north-south velocity component

 V_{X_2} = east-west velocity component, intermediate level

 V_{Y_2} = north-south velocity component, intermediate level

 V_{Z_2} = vertical velocity, intermediate level

XX,YY = intermediate variables

2.3.4 Aerodynamic Heating Correction to Temperature

 $AA = K_{1(Z)} \cdot V^{2}$

where

AA = aerodynamic heating correction

Z = 20-70 kilometers

 $K_{1(Z)}$ = aerodynamic heating term vs altitude (see paragraph 7.3)

V = ventilation velocity

2.3.5 Time Lag Correction to Temperature

 $AB = K_{2(Z)} \cdot [(T_3 - T_1)/G_3 - G_1)]$

where

AB = time lag correction

Z = 20-70 kilometers

 $K_{2(Z)}$ = time lag term vs altitude (see paragraph 7.3)

 T_1 = temperature, upper level (degrees K)

 T_3 = temperature, lower level, (degrees K)

G₁ = time, upper level (seconds after launch)

 G_3 = time, lower level (seconds after launch)

2.3.6 Radiation Heat Loss Correction to Temperature

$$AD = K_{3(Z)} \cdot T_2^4$$

where

AD = radiation heat loss correction

Z = 20-70 kilometers

 $K_{3(Z)}$ = radiation heat loss term vs altitude (see paragraph 7.3)

 T_2 = temperature, intermediate level (degrees K)

2.3.7 Radiation and Electrical Correction to Temperature

 $AC = K_{4(Z)}$

where AC = radiation and electrical correction

Z = 20-70 kilometers

 $K_{4(Z)}$ = radiation and electrical heating term vs altitude (variable between day and night; see paragraph 7.3)

2.3.8 Computation of Corrected Temperature

 $T = T_2 - AA + AB - AC + AD$

where T = corrected temperature (degrees K)

 T_2 = temperature, intermediate level (degrees K)

AA = aerodynamic heating correction

AB = time lag correction

AC = radiation and electrical correction

AD = radiation heat loss correction

2.4 Subroutine TWOKM

None

2.5 Subroutine SIMQ

None

2.6 Subroutine PRESCOM

2.6.1 Computation of Geopotential Height

$$H = GRAT \cdot [(Re \cdot Z)/(Re + Z)]$$

where H = geopotential height (meters)

GRAT = ratio of local acceleration of gravity to acceleration of gravity at 45 degrees latitude

Re = mean radius of the Earth (meters)

Z = geometric height (meters)

2.6.2 Computation of Mean Virtual Temperature

$$TV = (T + T_p)/2$$

where TV = mean virtual temperature (degrees K)

T = temperature of the level (degrees K)

 T_p = temperature, previous level (degrees K)

2.6.3 Computation of the Log of the Barometric Pressure

$$P = P_P - [(H - H_P)/(PC \cdot TV)]$$

where $P = \log of$ the barometric pressure

 $P_{\mathbf{p}}$ = log of the barometric pressure, previous level

H = geopotential height of the level

Hp = geopotential height, previous level

PC = 67.442, a constant in the hypsometric equation when units are meters

TV = mean virtual temperature

2.7 Subroutine ONEKILO

2.7.1 Computation of Initial Output Height

$$HS = [(HI/1000) \cdot 1000] + H_{INT}$$

where HS = initial output height (meters or feet)

HI = lowest input height (meters or feet)

 H_{INT} = output interval

2.7.2 Computation of Interpolation Ratio

$$K = (HS - HB)/(HA - HB)$$

where K = interpolation ratio

HS = output level (meters or feet)

HA = upper level height (meters or feet)

HB = lower level height (meters or feet)

2.7.3 Interpolation for East-West Velocity Component, North-South Velocity Component, Temperature, Uncorrected Temperature, and Fall Rate

$$X = K \cdot (XA - XB) + XB$$

where X = parameter interpolated

K = interpolation ratio

XA = lower level parameter

XB = upper level parameter

2.7.4 Interpolation of the Log of Pressure

$$P = K \cdot (PA - PB) + PB$$

where P = interpolated log of pressure

K = interpolation ratio

PA = log of pressure, lower level

PB = log of pressure, upper level

2.8 Subroutine OUTPUT

2.8.1 Computation of Barometric Pressure

 $P = 10^{PL}$

where P = barometric pressure (millibars)

PL = log of barometric pressure

2.8.3 Computation of Density

$$\varrho = 348.38 \cdot (P/T)$$

where $\varrho = \text{density}$, grams per cubic meter

P = barometric pressure, millibars

T = temperature, degrees Kelvin

348.38 = gas constant for dry air and conversion factors, with pressure in millibars and density in grams/cubic meter

2.8.3 Computation of Velocity of Sound

$$VS = 331.45 \cdot \sqrt{T/273.15}$$

where VS = velocity of sound (meters/second)

T = temperature (degrees K)

273.15 = freezing point of water (degrees K)

331.45 = velocity of sound at 273.15°K (meters/second)

2.8.4 Computation of Vertical Wind Shear

$$WS = \frac{\sqrt{(V_{X} - V_{X_{P}})^{2} + (V_{Y} - V_{Y_{P}})^{2}}}{HS - HSP}$$

where WS = vertical wind shear (/second)

 V_X = corrected east-west velocity component (meters/second)

 V_V = corrected north-south velocity component (meters/second)

V_{Xp} = corrected east-west velocity component, previous level (meters/second)

 V_{Y_p} = corrected north-south velocity component, previous level (meters/second)

HS = output height (meters)

 $HS_{\mathbf{p}}$ = previous output height (meters)

2.9 Subroutine PLOTCH

None

2.10 Subroutine COMPXYZ

2.10.1 Conversion of Range to Meters

 $R = RR \cdot 0.9144$

where

R = range (meters)

RR = range (yards)

0.9144 = meters in a yard

2.10.2 Computation of Geometric Height

$$Z = \sqrt{[(Re + HA)^2 + R^2 + 2R \cdot (Re + HA) \cdot \sin \phi]} - Re$$

where Z = geometric height (meters)

Re = mean radius of the Earth (meters)

HA = station height (meters)

R = slant range (meters)

 ϕ = elevation angle

2.10.3 Correction of Elevation Angle for Earth's Curvature

 $\phi_C = \phi + \{ [Z \cdot (\cos \phi/\sin \phi)]/2.2 \cdot Re \}$

where ϕ_C = elevation angle corrected for the Earth's curvature

 ϕ = elevation angle, uncorrected

Z = height (meters)

Re = mean radius of the Earth (meters)

2.10.4 Computation of East-West and North-South Position Components

 $X = R \cdot \cos(\phi_C) \cdot \sin(\theta)$

 $Y = R \cdot \cos(\phi_C) \cdot \cos(\theta)$

where X = east-west position component

Y = north-south position component

R = slant range (meters)

 ϕ_C = elevation angle corrected for the Earth's curvature

 θ = azimuth angle

2.11 Subroutine GRAVITY

2.11.1 Computation of Ratio of Local Gravity to Gravity at 45° Latitude

 $GRAT = 1 - [0.0026373 \cdot \cos (2 \cdot LAT)] + \{0.0000059 \cdot [\cos (2 \cdot LAT)]^2\}$

where GRAT = ratio of local gravity to gravity at 45 degrees latitude

LAT = station latitude (degrees)

0.0026373 constants, Smithsonian Meteorology Tables, page 488,

0.0000059 equation 1, List 1951

2.12 Subroutine COMPRSR

2.12.1 Computation of Interpolation Ratio

$$K = (ZA - Z)/(ZA - ZB)$$

where K = interpolation ratio

Z = desired output height

ZA = height of the upper level

ZB = height of the lower level

2.12.2 Interpolation for Temperature

$$T = K \cdot (TA - TB) + TB$$

where T = comparison temperature

K = interpolation ratio

TA = upper level temperature

TB = lower level temperature

2.12.3 Computation of Temperature Difference

$$DIFF = TRO - TRA$$

where DIFF = temperature difference (degrees C)

TRO = rocketsonde temperature (degrees C)

TRA = rawinsonde temperature (degrees C)

2.13 Subroutine CHKOUT

2.13.1 Computation of Time Difference Between Levels in Fractional Parts of a Minute

$$\Delta G = 60/(G - G1)$$

where $\Delta G = \text{time difference}$

G = time, lower level (seconds after launch)

G1 = time, upper level (seconds after launch)

2.13.2 Computation of Azimuth, Elevation, Range, and Height Differences for Each Minute

 $\Delta\theta = (\theta - \theta 1) \cdot \Delta G$

 $\Delta \phi = (\phi - \phi 1) \cdot \Delta G$

 $\Delta R = (R - R1) \cdot \Delta G$

 $\Delta Z = (Z - Z1) \cdot \Delta G$

where $\Delta\theta$ = azimuth difference/minute

 θ = azimuth, lower level

 $\theta 1$ = azimuth, upper level

 ΔG = time difference between levels

 $\Delta \phi$ = elevation difference/minute

 ϕ = elevation, lower level

 $\phi 1$ = elevation, upper level

 ΔR = range difference/minute

R = range, lower level

R1 = range, upper level

 ΔZ = height difference/minute

Z = height, lower level

Z1 = height, upper level

2.14 Function IGETC

None

2.15 Subroutine PUTC

None

2.16 Function WDIR

2.16.1 Computation of Wind Direction

 $D = tan^{-1} (Y/X) \cdot 57.29578$

If X < 0,

then WDIR = 270 - D

If X > 0,

then WDIR = 90 - D

If X = 0 and $Y \ge 0$

then WDIR = 360

If X = 0 and Y < 0

then WDIR = 180

where WDIR = wind direction, meteorological polar coordinates

D = wind direction, Cartesian coordinates

X = east-west velocity vector

Y = north-south velocity vector

57.29578 = degrees in a radian

2.17 Function WSPD

2.17.1 Computation of Windspeed

 $WSPD = \sqrt{X^2 + Y^2}$

where WSPD = windspeed

X = east-west velocity vector

Y = north-south velocity vector

2.18 Function VALUE

None

3.0 INPUT

Raw data input is from the floppy disk which has been recorded and smoothed by the realtime system. Options are input in conversational mode from the display console. The co-rawinsonde data input is from the floppy disk output of the rawinsonde reduction program.

Header Record

Words	Contents
1—5	Flight identification (10 characters)
6	Encoded sonde type
7	Number of points smoothing
8	Smoothed data output rate
9	Hard-copy option
10	Hard-copy output rate
11	Scrolled data output rate
12—13	Station altitude (feet)
14—15	Station temperature (degrees C)
16—17	Station pressure (millibars)
18—20	Sonde identification (6 characters)
2123	Channel 1 identification (6 characters)
24—25	Calibration constant 1 for channel 1
26—27	Calibration constant 2 for channel 1
28—29	Calibration constant 3 for channel 1
3032	Channel 3 identification (6 characters)
33—34	Calibration constant 1 for channel 3
35—36	Calibration constant 2 for channel 3
37—38	Calibration constant 3 for channel 3
39—40	Calibration constant for channel 2
41	Hygristor selection
42—89	Temperature log calculation table
90—137	Temperature ratio calculation table
138—140	Q9 sonde identification (6 characters)
141—142	Q9 baseline temperature ordinate
143—144	Q9 baseline relative humidity
145—146	Q9 baseline temperature (degrees C)
147	Q9 hygristor selection
148	Flight date
149—152	Flight starting time (hours, minutes, seconds, tenths of seconds)
153	Number of blocks written
154256	Unused (zeros)

Data Record

Data records are packed with eight 32-word records into one 256-word block.

Word	Contents
1	Software status word
2	Time (tenths of seconds)
3	Hardware status word 1
4	Hardware status word 2
5—6	X position of instrument (yards)
7—8	Y position of instrument (yards)
9—10	Z position of instrument (yards)
11—12	Slant range (yards)
13—14	Ground range (yards)
15—16	Altitude (yards above MSL)
17—18	Azimuth (degrees from true north)
19—20	Elevation (degrees)
21-22	Temperature channel 1 (degrees C)
23—24	Temperature channel 2 (degrees C)
25—26	Temperature channel 3 (degrees C)
27—32	Unused (zeros)

Sample Options Dialogue

Prompt	Operator Input
WAS THIS A NIGHT LAUNCH (YES/NO)	NO
OUTPUT TO CONSOLE OR PRINTER (CNS/PRT)	PRT
ENTER STATION ID FROM M.D.G.	01
WHAT IS THE FIRST GOOD TIME	192

Co-rawinsonde Data Format

Control File

Word	Contents
1	Units switch (feet/meters)
2	Winds in feet/second switch
3	Interpolation switch
4	Output device indicator

Control File (Continued)

Words	Contents
5	Optical index of refraction units switch
6	Wind shear in knots switch
7—8	Surface wind x component
9—10	Surface wind y component
11-12	Surface wind direction
13—14	Surface windspeed
15	Station number
16	Day
17	Month
18	Year
1920	Altitude increment (meters)
21	Release time
2223	Tropopause wind direction (degrees from true north)
2425	Tropopause time (seconds)
2627	Tropopause geopotential height (meters)
2829	Tropopause dewpoint (degrees C)
30-31	Tropopause geometric height (meters)
3233	Tropopause refractive index (optical/N)
3435	Tropopause pressure (millibars)
3637	Tropopause temperature (degrees C)
3839	Tropopause relative humidity (percent)
40-41	Tropopause windspeed (meters/second)
4245	Station latitude (double precision) (degrees)
46-47	Termination height (geometric meters)
4849	Termination pressure (millibars)
50-54	Flight identification
55	Sonde type
	Significant File

Significant File

Words	Contents
1-2	Altitude (meters, geometric)
3	Wind direction (degrees)
4	Windspeed (meters/second)
5-6	Temperature (degrees C)
7-8	Dewpoint (degrees C)
9—10	Pressure (millibars)
11-12	Refractive index (N units)
13—14	Relative humidity (percent)

Mandatory File

Words	Contents	
1-2	Altitude (meters, geopotential)	
3	Wind direction (degrees)	
4	Windspeed (meters/second)	
5-6	Temperature (degrees C)	
7—8	Dewpoint (degrees C)	
9-10	Pressure (millibars)	
11—12	Relative humidity (percent)	

Tabulation File

Words	Contents
12	Altitude (meters, geometric)
3—4	Wind direction (degrees)
56	Windspeed (meters/second)
7—8	Temperature (degrees C)
910	Dewpoint (degrees C)
11—12	Pressure (millibars)
13—14	Relative humidity (percent)
15—16	Absolute humidity (grams/cubic meter)
17—18	Density (grams/cubic meter)
19-20	Index of refraction (N)
2122	Velocity of sound (meters/second)
23-24	Shear velocity (seconds ⁻¹)
25—26	Vapor pressure (millibars)
27—28	Precipitable water (millimeters)

4.0 OUTPUT

The output is in two forms. One is quality control outputs to the printer for use by the operator. The second is constant altitude data in kilometers, 250-meter intervals, and thousands of feet.

The quality control outputs are as follows:

Data Comparison by Level

Time	Seconds after midnight
Azimuth	Degrees from true north
Elevation	Degrees from horizontal
Slant Range	Meters from tracker
Height	Meters above ground level

Data Comparison by Level (Continued)

Hour	Hour of the data level (local)
Minute	Minute of the data level (local)
Seconds	Second of the data level (local)
Time Difference	Seconds between data levels
Azimuth Difference	Degrees/minute between levels
Elevation Difference	Degrees/minute between levels
Slant Range Difference	Meters/minute between levels
Altitude Difference	Meters/minute between levels

Temperature Comparison - Rocketsonde Vs Rawinsonde

Altitude	Meters
Rocketsonde Temperature	Degrees Celsius
Rawinsonde Temperature	Degrees Celsius
Temperature Difference	Degrees Celsius

The scratch file is as follows:

Words	Contents
12	Altitude, meters
3-4	East-west velocity component, meters/second
5—6	North-south velocity component, meters/second
7—8	Uncorrected east-west velocity component, meters/second
9—10	Uncorrected north-south velocity component, meters/second
1112	Temperature (degrees K)
1314	Uncorrected temperature (degrees K)
15—16	Barometric pressure (millibars)
17—18	Fall rate, meters/second

Constant Altitude Data

Height	Geometric feet or meters at standard intervals of 1 km, 250 meters, and 1,000 feet
Wind Direction	In degrees from true north. Missing data is shown as 999
Windspeed	In knots or meters/second; calm is 000 and missing is 999
Temperature	In degrees Kelvin
Temperature Correction	In degrees Kelvin
Atmospheric Pressure	Millibars
Atmospheric Density	Grams/cubic meter
Fall Rate	In feet/second or meters/second (determined by height units)
Speed of Sound	In knots of meters/second (determined by height units)
Wind Shear	Seconds ⁻¹

Sample Options Dialogue

Prompt	Operator Input

Output to console or printer (CNS/PRT)

PRT

Plot of Temperature Vs Altitude

Altitude	Meters
Temperature	Degrees Kelvin

Constant Altitude Data

Height	Geometric feet or meters at standard intervals of 1 km, 250 meters, and 1,000 feet
Wind Direction	In degrees from true north. Missing data is shown as 999
Windspeed	In knots or meters/second; calm is 000 and missing is 999
Temperature	In degrees Kelvin
Temperature Correction	In degrees Kelvin
Atmospheric Pressure	Mihibars '
Atmospheric Density	Grams/cubic meter
Fall Rate	In feet/second or meters/second (determined by height units)
Speed of Sound	In knots or meters/second (determined by height units)
Wind Shear	Seconds ⁻¹

A scratch file is output to diskette for Pass 2 of the program. This data is as follows:

Words	Contents
1—2	Altitude (meters)
3—4	East-west velocity component (meters/second)
5—6	North-south velocity component (meters/second)
7—8	Uncorrected east-west velocity component (meters/second)
9—10	Uncorrected north-south velocity component (meters/second)
11—12	Temperature (degrees K)
13—14	Uncorrected temperature (degrees K)
15—16	Barometric pressure (millibars)
17—18	Fall rate (meters/second)

ID-R163 634	IRIG STA	NDARDS FOR	RANGE METE	OROLOGICAL D	ATA REDUCTION UNCIL WHITE F/G 4/1	3/5
INCLASSIFIED	SANDS MI	55ILE RANGE NDARD-352-8	E NM INTER- 85- 2 7-2	R DEC 85	F/G 4/1	NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL RUPPING OF STANDARDS 1963-A

5.0 ALGORITHMS

5.1 Subroutine TWOKM

Set up values that are to be used when calling SIMQ by multiplying elements of the matrix and assigning to proper place in symmetric coefficient matrix [A].

$$A_{X_{(I,J)}} = XA_{(I,J)} + XC_{(K,I)} \cdot SC_{(K,J)}$$

 $A_{Y_{(I,J)}} = YA_{(I,J)} + YC_{(K,I)} \cdot YC_{(K,J)}$

Set up values that are to be used when calling SIMQ by multiplying elements of the matrix and assigning to proper place in constant vector matrix [B].

$$B_{X_I} = XB_I + XC_{(K,I)} \cdot X_K$$

$$B_{Y_I} = YB_I + YC_{(K,I)} \cdot Y_K$$

Using the coefficients returned from SIMQ, calculate a smoothed X and Y

$$S_X = a^2 X B_1 + a X B_2 + X B_1$$

$$S_Y = a^2 Y B_1 + a Y B_2 + Y B_1$$

where

$$a = 5$$

XB = coefficients returned from SIMQ

 S_X = smoothed east-west component

 S_V = smoothed north-south component

5.2 Subroutine SIMQ

The least squares method provides a best fit of the components by generating a second degree polynomial equation, of general form

$$y = k_2 x^2 + k_1 x + k_0$$

and computing an offset from the center of the 9- point range. Two matrixes are created, designated [A] and [B]. Symmetric coefficient matrix [A] is

$$[A] = \begin{bmatrix} N & \Sigma X_i & \Sigma X_i^2 \\ \Sigma X_i & \Sigma X_i^2 & \Sigma X_i^3 \\ \Sigma X_i^2 & \Sigma X_i^3 & \Sigma X_i^4 \end{bmatrix}$$

and constant vector matrix [B] is

$$[B] = \begin{bmatrix} \Sigma Y_i \\ \Sigma X_i Y_i \\ \Sigma X_i^2 Y_i \end{bmatrix}$$

Note: Σ indicates summation from 1 to N; N = 9.

Basic matrix equation [A] [K] = [B] is solved by finding the inverse of [A], $[A]^{-1}$, and performing multiplications:

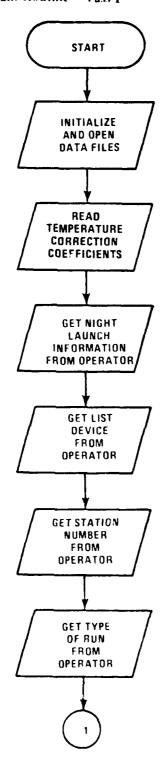
$$[A]^{-1}$$
 $[A]$ $[K]$ = $[A]^{-1}$ $[B]$
 $[I]$ $[K]$ = $[A]^{-1}$ $[B]$

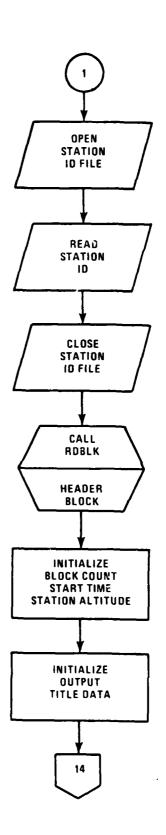
 $[A]^{-1}$ is calculated by SIMQ using the Gauss-Jordan inplace matrix inversion method. SIMQ returns the appropriate coefficients k_2 , k_1 , and k_0 , which the calling routine incorporates in calculating the appropriate values.

6.0 FLOWCHARTS

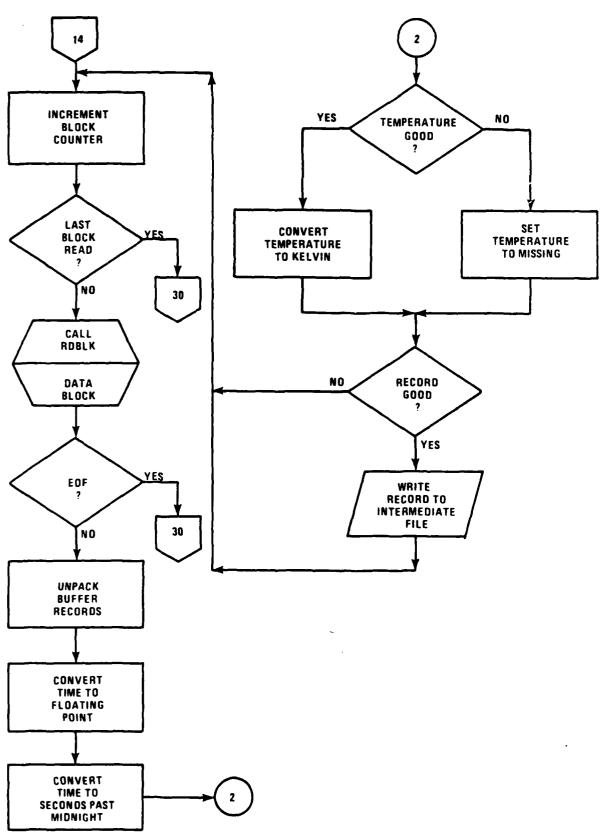
See the following pages.

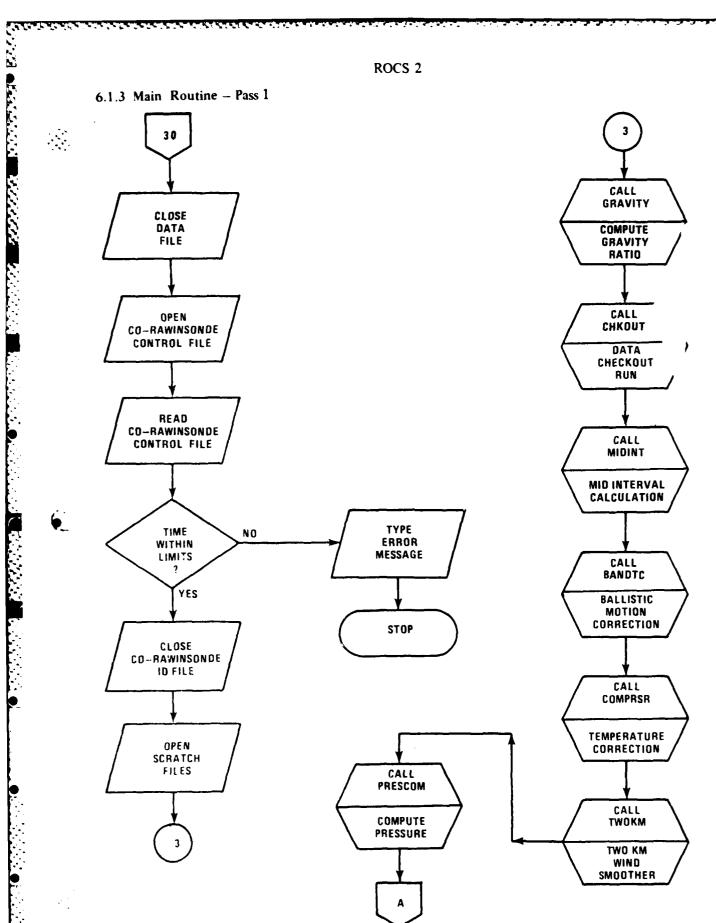
6.1.1 main Routine - Pass 1



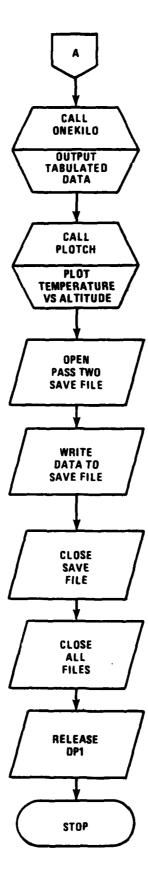


6.1.2 Main Routine - Pass 1

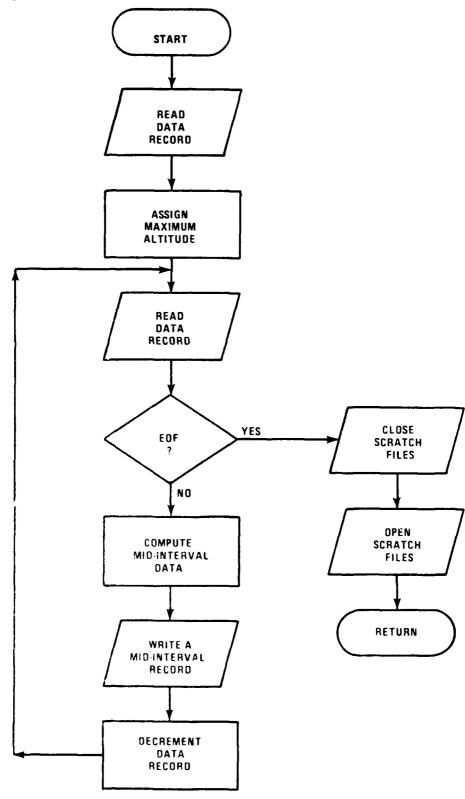




6.1.4 Main Routine - Pass 1



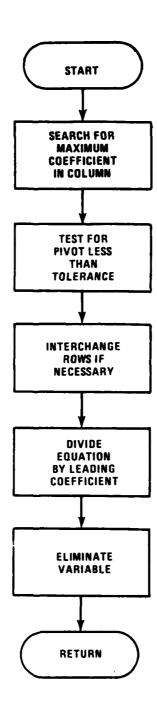
6.2 Subroutine MIDINT



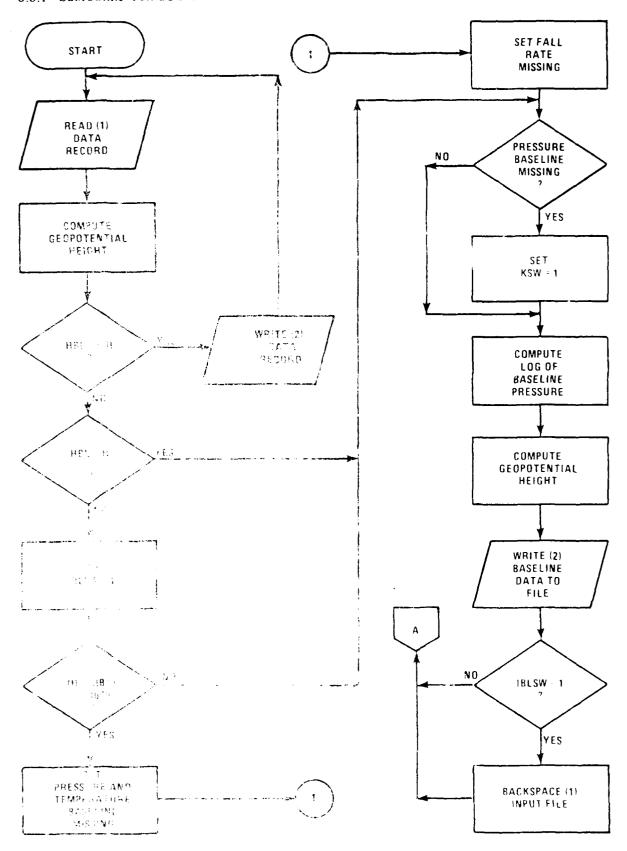
6.3 Subroutine BANDTC DEFINE START UNCORRECTED **VARIABLES** READ UPPER LEVEL COMPUTE RECORD BALLISTIC MOTION CORRECTIONS DEFINE UNCORRECTED VARIABLES COMPUTE **TEMPERATURE** CORRECTIONS READ CLOSE MIDDLE **SCRATCH** LEVEL WRITE FILES RECORD **CORRECTED AND** UNCORRECTED DATA RECORD **OPEN** DEFINE SCRATCH UNCORRECTED FILES VARIABLES DECREMENT LEVELS OF INPUT DATA COMPUTE RETURN STATION GRAVITY READ LOWER LEVEL RECORD YES EOF NO

6.4 Subroutine TWOKM START DATA YES MISSING CLOSE NO READ SCRATCH DATA TO FILES ARRAYS INITIALIZE SMOOTHING ARRAYS OPEN WRITE SCRATCH DATA TO FILES SCRATCH CALL FILE SIMQ EAST - WEST COMPONENT ATAG REVERSE FILE 2 DATA AND READ WRITE TO DATA TO FILE 1 ARRAYS CALL SIMQ NORTH - SOUTH COMPONENT CLOSE SCRATCH DATA NO FILES EOF YES COMPUTE SWOOTHED OPEN DATA SCRATCH FILES VIPITE SMOOTPED DATA TO SCRATCH RETURN FILE DECREMENT DATA ARBAYS

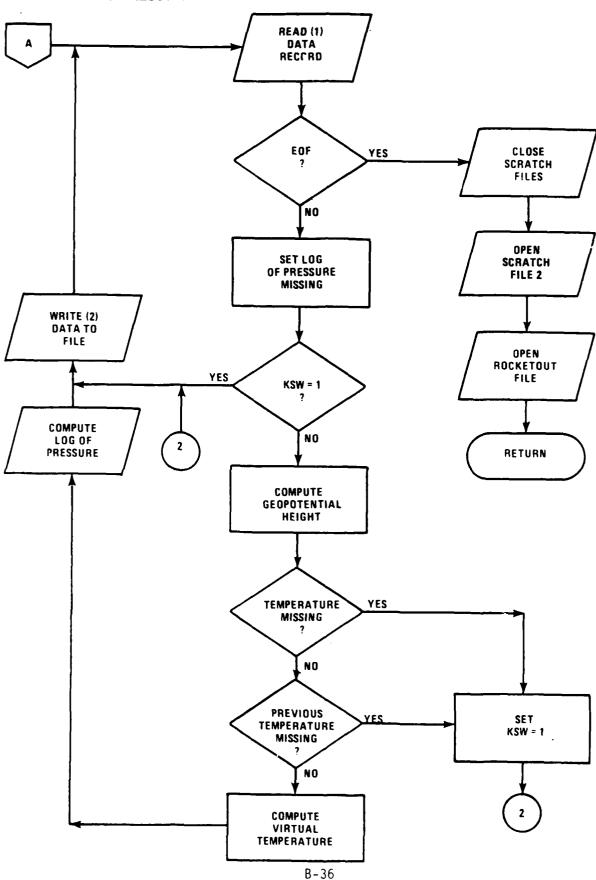
5.5 Subroutine SIMQ



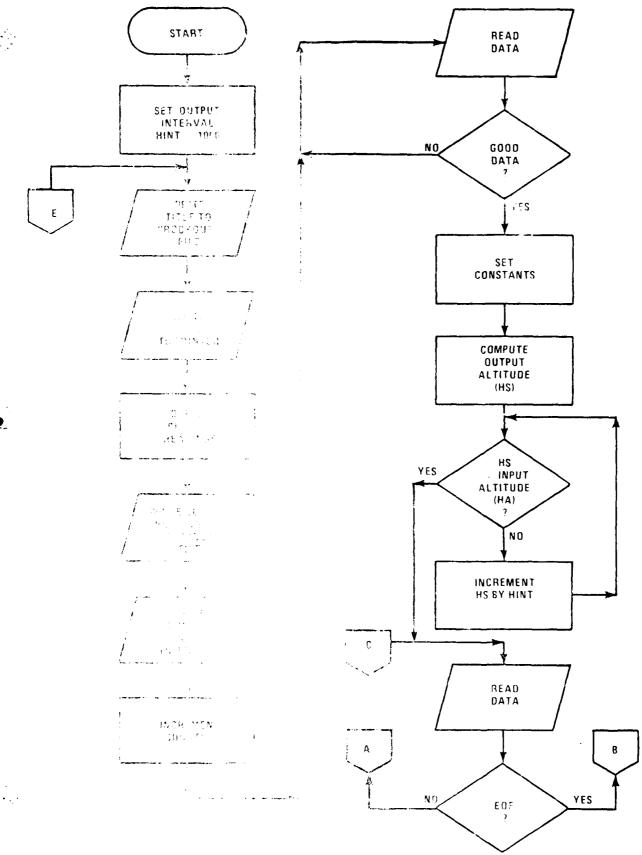
6.6.1 Subroutine PRESCOM



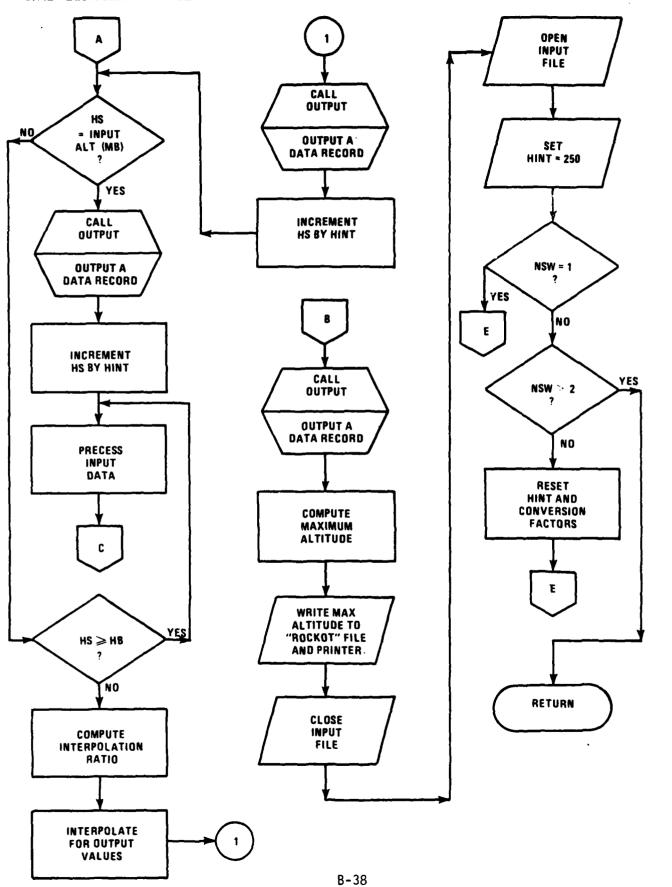
6.6.2 Subroutine PRESCOM



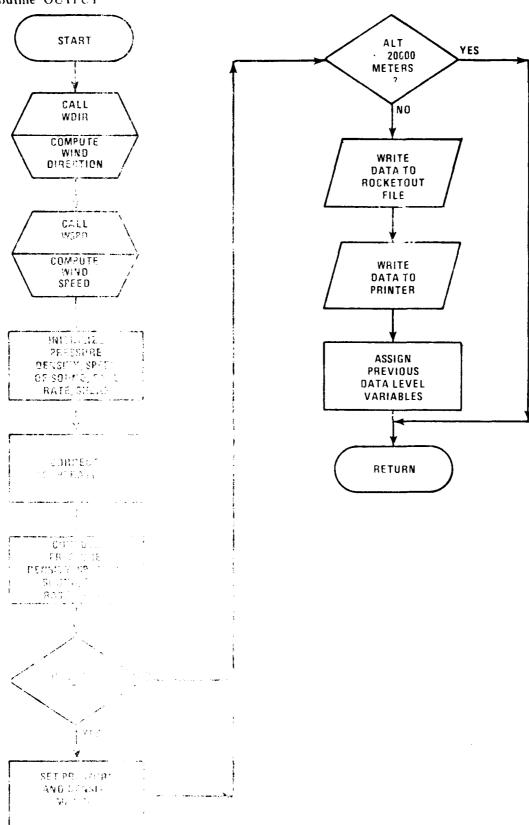
6.7.1 Subroutine ONEKILO

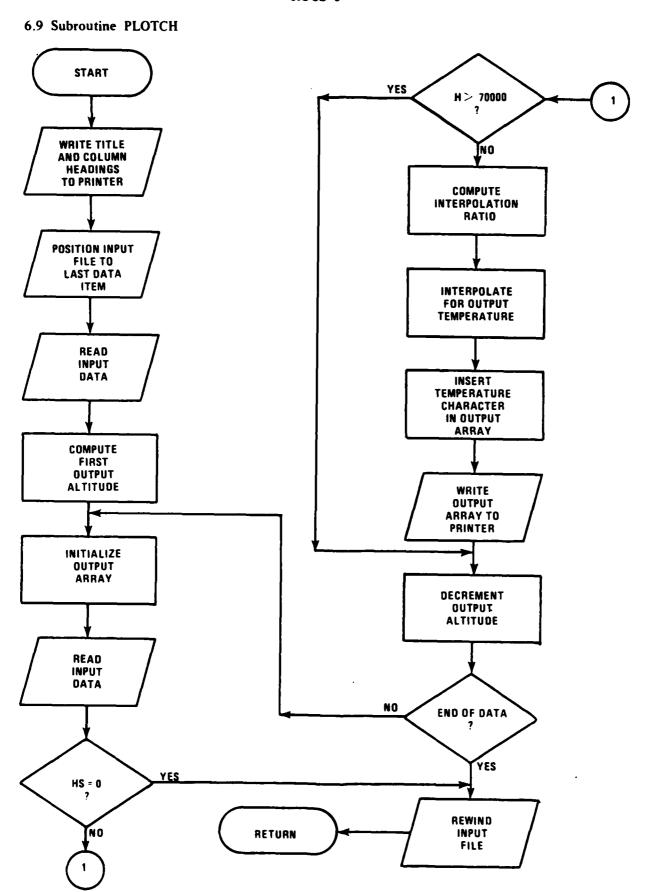


6.7.2 Subroutine ONEKILO

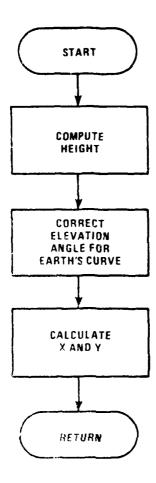


6.8 Subroutine OUTPUT

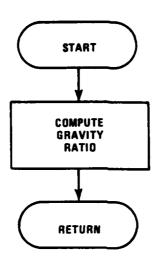




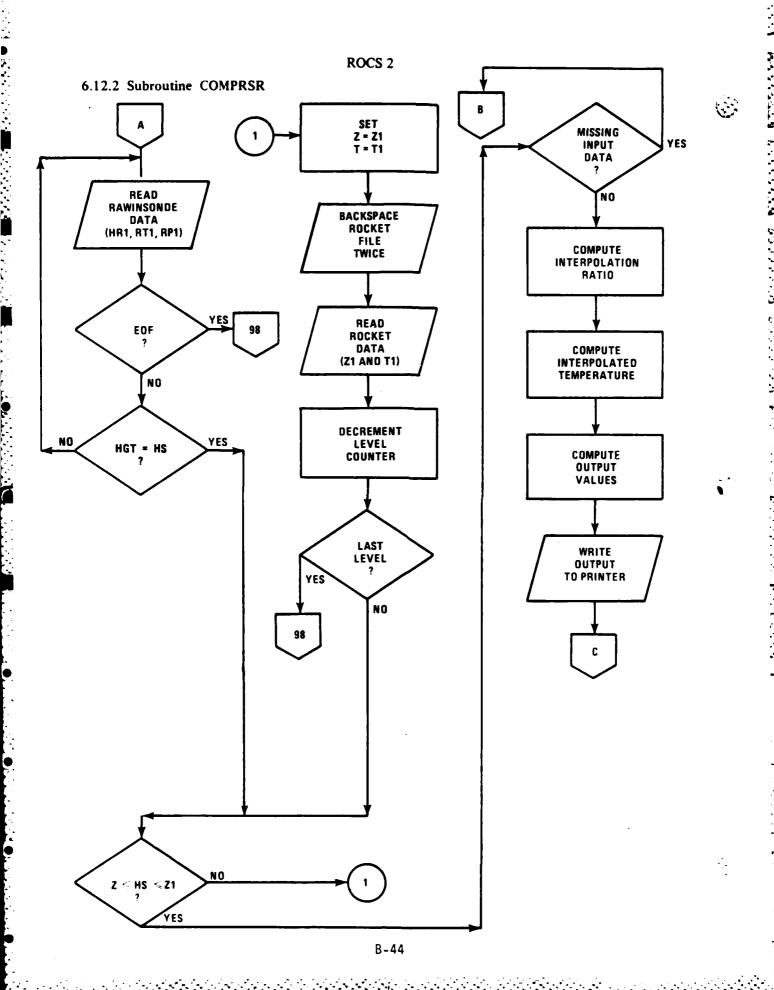
6.10 Subroutine COMPXYZ



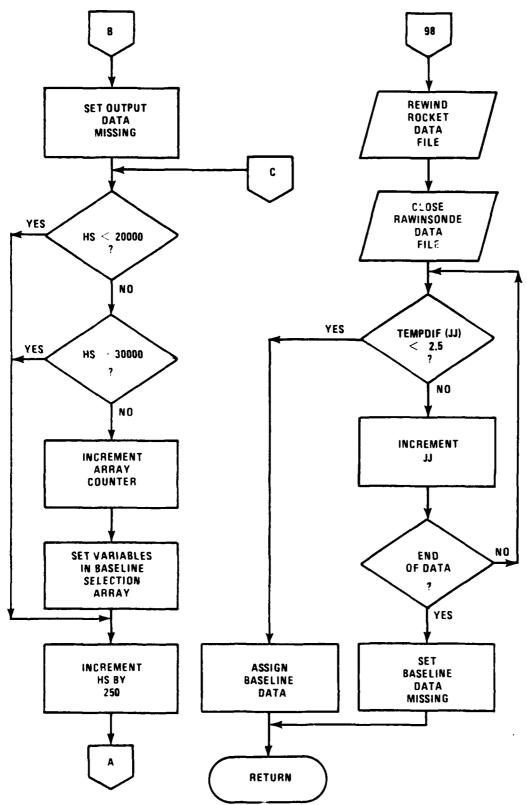
6.11 Subroutine GRAVITY

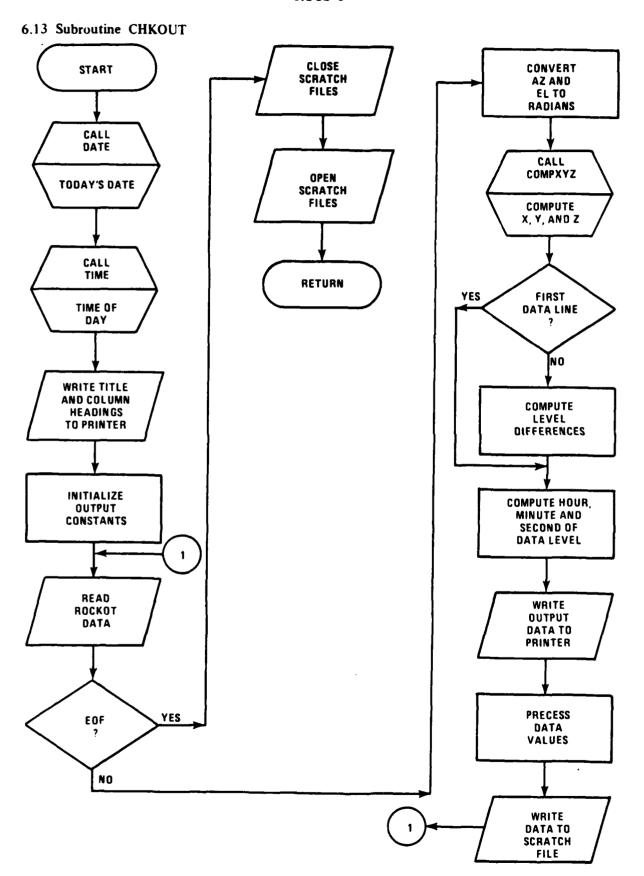


6.12.1 Subroutine COMPRSR COMPUTE START AN GUTPUT HEIGHT (HS) READ RAWINSONDE HEADER **INFORMATION** YES $\mathbf{Z} < \mathbf{H}\mathbf{S}$ Νũ INITIALIZE HEIGHT **ARRAY** INCREMENT HS BY 250 INITIALIZE COUNTERS AND FLAGS SET BASELINE HEIGHT (HBL) POSITION INPUT ROCKET FILE TO LAST **DATA ITEM** WRITE TITLE AND COLUMN HEADINGS READ ROCKET DATA (Z AND T) OPEN RAWINSONDE DATA FILE BACKSPACE ROCKET FILE READ RAWINSONDE DATA HR, RT, RP READ ROCKET DATA (Z1 AND T1)

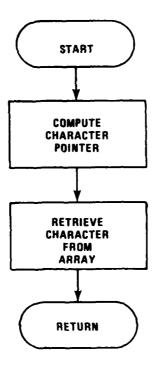


6.12.3 Subroutine COMPRSR

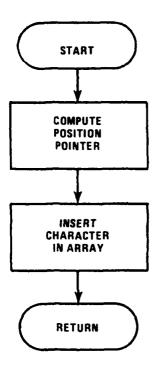


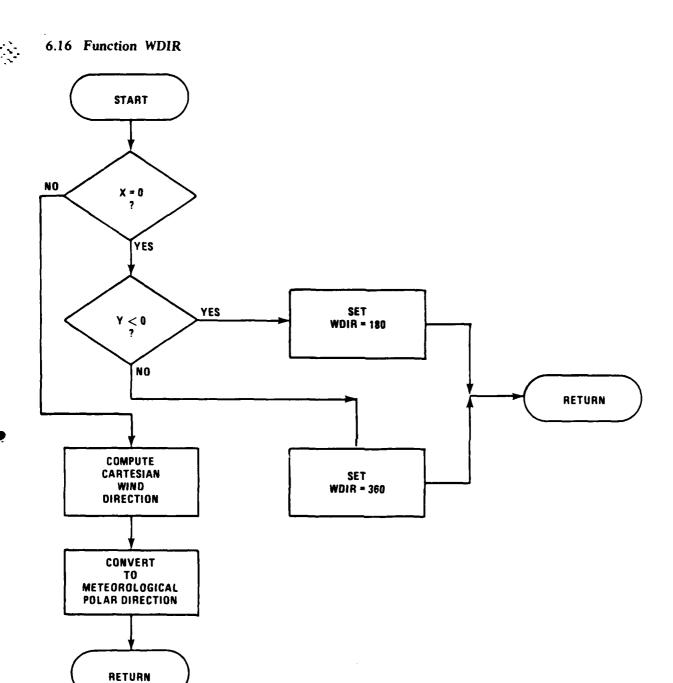


6.14 Function IGETC

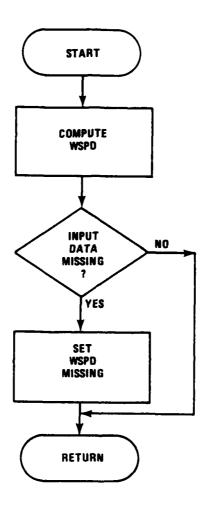


6.15 Subroutine PUTC

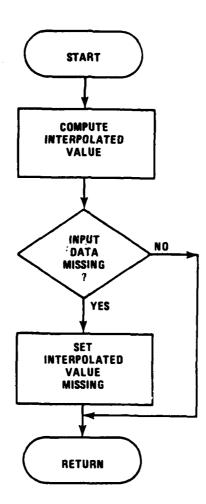




6.17 Function WSPD



6.18 Function VALUE



7.0 MATHEMATICAL AND PHYSICAL CONSTANTS

7.1 Main Routine

57.29578 Degrees in a radian

67.442 Constant in hypsometric equation, Smithsonian Meteorological Tables, List 1968

6371229.315 Mean radius of the Earth, meters

65536 2¹⁶, maximum number in 16 bits + 1

3600 Seconds in an hour

60 Seconds in a minute

273.15 Freezing point of water, degrees K

7.2 Subroutine MIDINT

None

7.3 Subroutine BANDTC

9.80616 Acceleration of gravity at 45 degrees latitude, meters/second²

TABLE 1

The following table lists values of K_1 , K_2 , K_3 , and K_4 versus altitude for the 10-mil bead thermistor using a loop mount.

Z	K_1 $\int s^2 \circ K$	κ^2	K ₃		.4 Κ)
(m)	$\left(\frac{1}{m^2}\right)$	(s)		Day	Night
70 x 10 ³	4.65 x 10 ⁻⁴	12.77	18.51 x 10 ⁻¹⁰	23.2	7.56
69	4.65	10.60	14.63	18.4	6.04
68	4.64	8.92	11.83	15.0	4.93
67	4.64	7.70	9.80	12.5	4.13
66	4.63	6.69	8.18	10.4	3.48
65	4.62	5.93	6.98	8.94	3.00
64	4.61	5.27	5.98	7.70	2.59
63	4.59	4.72	5.17	6.69	2.26
62	4.57	4.27	4.53	5.87	2.00
61	4.55	3.84	3.93	5.13	1.75
60	4.52	3.51	3.49	4.57	1.57
59	4.50	3.23	3.12	4.10	1.41

TABLE 1 (Continued)

			• •		
Z	K ₁	K ²	K3	K	•
_	$\left(\frac{s^{-s}K}{}\right)$		$\left(\begin{array}{c} 1 \\ - \end{array}\right)$	(°;	K)
(m)		<u>(s)</u>	~K3 /	Day ————	Night
58 x 10 ³	4.48 x 10 ⁻⁴	2.95	2.78 x 10 ⁻¹⁰	3.66	1.27
57	4.46	2.72	2.49	3.29	1.15
56	4.44	2.51	2.24	2.98	1.04
55	4.43	2.342	2.05	2.73	0.956
54	4.42	2.148	1.87	2.51	0.880
53	4.41	2.053	1.74	2.33	0.820
52	4.40	1.935	1.62	2.17	0.766
51	4.40	1.828	1.51	2.03	0.718
50	4.39	1.728	1.41	1.90	0.673
49	4.39	1.627	1.31	1.77	0.629
48	4.39	1.545	1.23	1.67	0.592
47	4.39	1.469	1.16	1.57	0.559
46	4.40	1.393	1.09	1.48	0.528
45	4.41	1.330	1.03	1.40	0.500
44	4.41	1.271	9.76 x 10 ⁻¹¹	1.33	0.476
43	4.42	1.212	9.24	1.26	0.452
42	4.42	1.160	8.79	1.20	0.430
41	4.43	1.111	8.35	1.14	0.410
40	4.43	1.065	7.95	1.09	0.392
39	4.44	1.019	7.53	1.03	0.372
38	4.44	0.978	7.18	0.986	0.355
37	4.45	0.940	6.85	0.943	0.341
36	4.45	0.903	6.52	0.897	0.323
35	4.46	0.868	6.22	0.858	0.311
34	4.46	0.837	5.96	0.822	0.298
33	4.47	0.804	5.68	0.785	0.285
32	4.47	0.776	5.44	0.753	0.274
31	4.48	0.749	5.22	0.722	0.263
30	4.49	0.724	5.00	0.694	0.253
29	4.49	0.700	4,79	0.666	0.243
28	4.50	0.677	4.60	0.640	0.235
27	4.50	0.656	4.42	0.615	0.225
26	4.51	0.635	4.25	0.593	0.218
25	4.52	0.616	4.09	0.572	0.210
24	4.52	0.597	3.94	0.551	0.203
23	4.52	0.580	3.81	0.533	0.197
22	4.53	0.565	3.69	0.518	0.191
21	4.54	0.550	3.58	0.502	0.185
20	4.55	0.535	3.47	0.487	0.180

7.4	Subroutin	e TWOKM
None		·
7.5	Subroutin	e SIMQ
None		
7.6	Subroutin	e PRESCOM
None		
7.7	Subroutin	e ONEKILO
	1000	Output interval, meters and feet
	250	Output interval, meters
7.8	Subroutin	ne OUTPUT
	348.38	Gas constant for dry air with pressure in millibars and density in grams/cubic meter, combined with conversion factors
	331.45	Speed of sound at zero degree Celsius, meters/second
	273.15	Freezing point of water, degrees K
7.9	Subroutir	ne PLOTCH
	1000	Output interval, meters
	70000	Maximum output altitude
7.10	Subroutir	ne COMPXYZ
	0.9144	Meters/yard
	2.2	Constant used in correcting elevation angle for the Earth's curvature
7.11	Subroutir	ne GRAVITY
5	7.29578	Degrees in a radian
	0026373 0000059	Gravity ratio constants from Smithsonian Meteorological Tables, page 488, equation 1, List 1951
7.12	Subroutir	ne COMPRSR
	0.3048	Conversion factor for meters to feet
	273.15	Freezing point of water, degrees K

8.0 BIBLIOGRAPHY

- 1. List, R. J., "Smithsonian Meteorological Tables," Smithsonian Institution, Washington, D.C., Sixth Edition. Smithsonian Miscellaneous Collections, Vol. 114, 1958.
- 2. Eddy, et al., "Determiniation of Winds from Meteorological Rocketsondes," University of Texas Report Number 2, University of Texas, November 1965.
- 3. Henry, R. M., Paper presented to the American Meteorological Society Conference on "High Altitude Meteorology Atmosphere Space Weather," Houston, Texas, 27-31 March 1967.
- 4. Krumins, M. V. and Lyons, W. C., "Corrections for the Upper Atmosphere Temperatures Using a Thin Film Loop Mount," NOLTR 72-152, Naval Ordnance Laboratory, 22 June 1972.
- 5. Luers, J. K., "A Method of Computing Wind Density, Temperature, Pressure and Their Associated Errors from the High Altitude Robin Sphere Using an Optimum Filter," AFCRL-70-0366, July 1970. Final report on AFCRL Contract with the University of Dayton Research Institute.
- 6. Gustafson, A. F., "The Error in Rawin Computations Due to Neglecting the Earth's Curvature," Bull., AMS, Vol. 35, No. 7, pp. 295-300, September 1954.

ATTACHMENT 1
INPUT DATA FILE, DUMP AND BINARY

PASS 1

1857 NUMBER IN COLORS 20 20 20 20 20 20 20 2			ROCS 3	
######################################				
# # # ##\$.** Fit fills ** ** ** ** ** ** ** ** ** ** ** ** **	111177	60.20499 08 , 79979 10 2.60200 00 2.60200 00 2.60200 00 2.60200 00 2.60200 00 2.60200 00 2.60200 00 2.60200 00 00000 1.23.0.100000 1.23.0.1000000 1.23.0.1000000		
one one on a said a said a a a little of the	1EST NUMBER: 000000 ASCENT MUMBER: 4029 SUMBENDE MUMBER: 4029 SUMBENDE BUTTER UNTER UNIFERHANGOOF COTTENT NATE: 1-514 ILLANDE: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 16 SC. IUN PRESSUME: 17 SC. I	### ### ##############################		

MESE DEFT FRUME: Z SLANT GKGUND ALITIUDE RANGE KANGE

> SOFTWR TIME MAKEWI MAKEWE ELEMINA BIMINA SIMINA

TEMP2

TEMPT KH

7 H

				ROCS 3		1 1	
-69.3 -69.3 33.9	999.9- 999.9- 113.0-	204422	20.00 P. 1.00	24 94 94 94 94 94 94 94 94 94 94 94 94 94	-26.9 -32.6 -37.2 -38.2	44.42.99 44.00 45.20 45.20	42.4 42.1 42.2 42.8
6.666	24.44. 22.44. 24.44. 34.44.	M	2 4 2 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	4-8-4-8-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	-24.8 -32.6 -37.0	4444 4444 9000 9000 9000	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
-69.3 -69.3 32.3	-75.8 -11.5 -15.7	i i i i i i i i i i i i i i i i i i i	10 mm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.000 0.000	-24.3 -33.5 -33.5 -37.7	445.1 450.1 50.4	49.3 47.2 45.3 45.3
72.09	66,35 64,80 63,45 62,24 61,08	559.53 59.01 58.01 58.07 58.07	55, 20 55, 27 55, 27 55, 86 55, 43 53, 75 52, 06	50.90 48.74 47.62 47.62 47.63 43.88		15 22 25 25 25 26 27 27	
102.87 99.60 98.13	97.67 97.83 97.72 96.65	95.39 94.01 92.67 91.34 89.88	87,38 85,62 84,50 82,65 81,20 80,19 79,68	80.14 80.66 80.66 80.20 79.60	79.43 79.21 78.98 78.41 78.13	77.19 76.47 76.47 75.52	75.47 75.16 75.16 74.77 74.68
·	726214.00 70436.25 67322.06 64707.48		51654,74 50548,18 49517,50 47701,29 46834,73 46834,73 46834,73	44587,71 4387,59 43269,04 42552,32 41964,14 41221,19 41221,19		36854.24 36444.33 36134.75 35625.20 35199.79	25 27 27 27 27 27 27 27 27 27 27 27 27 27
	33099.16 33099.16 33593.68 34007.99	34596.32 34118.25 34173.47 33556.14 33532.63	33341.87 34264.62 34132.34 34047.34 34274.19 34660.98	36157,15 36843,80 37815,85 37815,85 3687,19 40689,55 42180,57 43421,94	44989.27 46274.04 47491.59 48721.38 49908.12	52039.43 53173.19 54274.16 55386.48 56677.82	58662.99 59806.60 61019.20 62057.94 63151.09 64182.84
00.656566	999999, 00 77750, 25 77750, 25 73622, 31 73622, 31	69560.37 67821.31 66369.12 64960.62 63590.64	61397.20 60725.22 60143.50 59307.41 58534.25 57964.45 57596.45	57329.08 57389.21 57339.24 57449.24 57629.64 57629.64 57629.64 57629.64	59852.48 60507.57 61115.11 61758.79 62438.81	63653.35 -64346.93 65083.61 -65733.75 66597.00	68015.87 68851.31 69666.54 70463.75 71255.06 72550.19
00 666666	916011,40 70353,25 67236,69 64620,06	60347.19 58497.34 56895.21 55379.52 53968.83	51555,36 50461,66 48501,46 47613,45 46743,81 45799,83 45258,81	44489, 32 43748, 28 43101, 87 42440, 21 41786, 62 41096, 74 40558, 22 40058, 22	39475.23 38985.24 38465.71 37552.35	36655.86 36237.42 35919.41 35401.62 34965.32	34421.31 34112.87 33617.07 33376.28 33063.71 3238.56 32426.30
00 ******	-52845,89 -4507,65 -4512,53 -3937,24 -3763,91		1525, 31 2577, 12 3286, 71 4366, 22 5207, 17 5838, 05 6209, 82 6193, 50	6193.55 6092.57 6139.77 6330.43 6758.04 6758.04 7617.90	8249, 93 8662, 94 9081, 65 9623, 54 10266, 72	11538, 70 12261, 12 12696, 13 13470, 91 14067, 00	14717, 10 15068, 93 15629, 26 16084, 76 16586, 23 17335, 20
00 ****** 00 ******	397653,40 32790,87 -33289,36 33779,44	34334,13 34136,53 34136,53 3358,67 33582,67	3330/,10 33683,12 34106,76 33651,94 33672,64 33723,43 34100,31	35622.87 36458.17 37314.21 38159.36 39107.69 41229.84 41447.08	44226.54 45456.08 46615.38 47261.71 48840.92	50744, 33 51740, 47 52768, 51 53723, 52 54906, 71	56787.14 57872.12 58983.82 55937.45 60934.29 61861.90
0 004312 002041 9 904312 902041 0 004312 002041	002041 002041 002041 002041	662041 602041 602041 502041 662041	002041 002041 002041 002041 002041 002041	002041 002041 002041 002041 002041	002041 002041 002041 002041 002041	002041 002041 002041 002041 002041	002041 002041 002041 002041 002041 002041
30 004312 50 004312 70 004312		i i	004312 004312 004312 004312 004312 004312	004312 004312 004312 004312 004312 004312	l. i. l.		
₹ ₹ 3	120 150 150 150 150 150 150 150 150 150 15		5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	690 750 750 750 750 840 870 870		· · ·	
07 (000	92 1 100 92 1 100 92 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 93 1 100 94 1 100 95 1 100 96	661176 011170 011170 011170 661170 043170	661376 661376 661376 611376 611376 661376	001170 001170 001170 001170 043370 001170	_ _]		

	فعا
	47
	AL CITUDE
THIME	GROOME
	SI ANI
ASS DAIR	/
•	-ر
	•
	~
	21 33 3

							ROCS 3			
(ENP.2	-45.8 -45.8	-45.6 -46.8 -47.2	-47.3 -49.8 -50.9 -50.7	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	-53.6 -52.9 -54.0	200 200 200 200 200 200 200 200 200 200			-61.0 -61.6 -60.7 -61.6 -60.8	-63.9 -63.8 -64.5 -65.1 -66.1
ž	-45.9	45.8 -46.0	-47.0 -49.7 -51.1	-50.7 -50.5 -50.5	• N → d æ	0 + H + O	. ساسا		-60.9 -61.7 -60.9 -61.7 -60.9	42040
IEMP1	45.4	-46.1 -46.3		50.6		M + 40	400000	-58.5 -58.5 -59.7 -59.7 -59.7 -59.7	-60.8 -61.3 -61.3 -62.1 -61.4	10 - 40 of 4 d a
13	25.77 255.21	24.21 23.57 23.13		20.55 20.55 19.76 19.45				15.02 14.83 14.64 14.56 14.31	14.00 13.29 13.52 13.54 13.32	
4/	74.85 74.93 75.04	75.18 75.12 75.11	74.98	74.88 24.83 74.82 74.72	74.72 74.62 74.82 74.83	74.73	75.04	74.58 75.48 75.18 25.30 75.39	75, 48 75, 42 75, 42 75, 39 75, 34	75, 29 25, 19 75, 08 25, 01 74, 86 24, 23
AL CTTUDE	32353.45	31,56,12 31,56,12 30947,30	30637.61 30387.54 30127.15 29904.00	29501.34 29314.46 28967.59 28782.45	28365.98 28241.73 27335.23	27413.14 27296.60 27098.H7 26913.37	26502, 23 26502, 23 26323, 41 26127, 85 26001, 50	25452.69 25544.89 25544.89 25060.71 24959.01 24781.50	24541.09 24334.58 24146.05 24122.18 23864.21	23607, 69 23372, 64 23295, 54 23219, 40 23049, 00 22880, 21
IIIJOHE? I GRUUND (E RANGE	66343.H1 67406.62 68518.75	69509, 31 70598, 25 71590, 56	72674.31 73734.19 74751.12 75744.44	77553.12 78414.50 79351.19 80178.37	81897.50 82713.31 83564.06 84362.81	85907,75 85907,75 86661,62 87365,00	88716.25 88716.25 887366.12 90052.00 90725.12	92543.61 93613.37 93530.00 94673.50 94619.75	95789, 75 96396, 46 96901, 25 97362, 19 97900, 31	99149,81 92762,19 100313,10 100877,80 101448,10 101900,80
SI ANT SI ANT RANGE	73672.75 74503.37 25.484.33	76214.25 77622.37 77846.75	78725.25 79601.31 80443.69 81282.37	82076.00 82621.31 83560.31 84318.31 85032.25	86513.50 87243.50 87243.50 87351.25	89327.44 89980.31 90639.44 91255.94	91855.56 92429.31 93061.25 93604.50 948215.81 94829.56	95818.37 96216.94 96668.00 97166.56 97169.62	98721, 44 99252, 25 99703, 00 106145, 10 100605, 70	101759.90 102304.00 102621.10 103353.70 103872.00 104872.00
88 / 8	32034.11	31258.12 30775.15 30576.25	20255.33 29994.22 29723.04 29489.21	29275.27 29066.76 28876.27 28512.82 28318.25	27881.85 27748.01 27431.38 27150.39	26889.71 26764.34 26557.29 26363.04	25934.87 25934.87 25747.78 25543.42 25408.37 25175.09	24835,90 24621,66 24430,58 24321,59 24136,70 23972,34	23680.33 23665.57 23469.96 23444.71 23174.20	22900, 28 22651, 31 22982, 95 22308, 38 22133, 66 22133, 66 22133, 66
ξ -	17340.54	17778.00 18132.48	18050.36 19050.36 19303.59 19639.16	19930.03 20224.56 20522.45 20778.39 21036.29	21519.87 21652.95 21884.63	22302.23 22630.34 22823.98 22942.68	2319.62 23036.59 23081.52 23252.07 23392.52	23990, 43 23990, 43 23925, 32 23825, 56 23864, 14 23964, 54	24166.31 24166.84 24386.46 24557.89 24748.25	25171.20 25505.37 25827.79 26090.30 26497.05 26895.48
*	640.52, 96 65069, 79 64201, 82	67197,75 68130,25 69187,00	70195.50 71231.00 72216.00 73154.44	74042.37 74869.94 	79019, 94 79019, 94 79029, 12 80642, 81	H2213.19 B2873.75 B3662.37 B4299 06	65673, 50 65673, 50 86334, 31 86558, 69 87657, 87 68327, 50	89380,56 89380,56 89877,62 90418,62 90293,73 92119,37	922730.69 93311.87 93783.00 94214.62 74721.06	9.5902.00 9.6442.25 9.931.62 8.446.12 97927.25 98301.62
HAKUM2 STATUS	002041	002041	002041 002041 002041 002041	002041 002041 002041 002041 602041	002041 002041 002041 002041	002041 002041 002041 002041	002041 002041 002041 002041 002041	002041 002041 002041 002041 002041 002041	002041 002041 002041 002041 002041	002041 602641 002041 002041 002041 002041
HAKTIMA BLATUS	004312			004312 004312 004312 004312 004312	004312 004312 004312 004312			004312 004312 004312 004312 004312		004312 004312 004312 004312 004312
	1530			1830 1830 1830 1870	1		1	2490 2490 2490 2520 2550 2550	2610 2640 2670 2790 2730 2730	2790 2824 2824 2860 2910 2940 2970
SULF FUR	071100	001170	0/1100	021100 021100 021100	0.01100 0.01100 0.01100	001170 001170 001170 001170	001170 001170 001170 001170 001170	001170 001170 001170 001170 001170	0/1100 0/1100 0/1100 0/1100 0/1100	071170 071170 071170 071170 071170 071170
•					1	, !	B-61		ı	

		ROCS 3			
renp2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
퐢	- 46.00 - 46.0		į		\$ •
TEMET	66.4 66.4				:
Ë	11.99 11.99 11.99 11.96 11.59 11.59 11.59 11.10 10.83 10.83 10.93				1
A 2	74.65 74.52 74.52 74.52 74.44 74.44 74.65 73.94 74.08 74.08 74.08 74.08 74.08 74.08 74.08 74.08 74.08 74.08 74.08 74.08				
AL TITUDE	226,77,38 225,84,42 224,17,65 22,101,44 22,197,06 21,93,20 21,55,72 21,55,73 21,564,40 21,564,40 21,564,40 21,564,40 21,564,40 21,564,40 21,564,21 20,994,21				, <u> </u>
EN 1891) I GKÜUND E RANGE	102512.30 103124.20 103124.20 103524.60 103524.60 104384.20 105318.10 105302.80 105302.80 105303.80 107353.60 107353.60 107353.60 107353.60 107353.60 107353.60 107363.40 107363.40				
E 63 SLAN RANG	105275.40 105375.30 105375.30 105375.00 105416.10 106417.00 106417.00 106417.00 107330.10 107330				
ម	21921.21 21824.25 21652.63 21435.94 21323.98 21323.98 21323.98 20766.68 20766.68 20766.68 20766.68 20574.69 20154.69 20154.69 20154.93 19639.32 19639.32				
£	27.1.2.62 27.2.1.2.62 27.524.47 287026.04 287026.04 281027.42 28127.42 29123.42 29123.42 29127.43 29127.43 30127.21 30127.21 30127.21 31367.21				: ' !
*	\$6653.84- 99166.94- 99166.94- 99286.25- 100109.20- 100109.20- 100109.20- 100109.40- 100193.40- 101421.00- 101422.00- 1014				
HAKEWE STATUS	002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041 002041				
HAKEWI HAKEWI STATUS STATUS	0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312 0.04312				
	36.36 36 36.36 36 36 36 36 36 36 36 36 36 36 36 36 3				
SOFTWR TIME STATUS	001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170 001170	8-62			
			والمواجية والمواجية	والمحارب والمراجع والمراجع والمراجع	

10 0.000	+																The second secon													₹0	cs	3																							
CALCAL C											:																														: • • • • • • • • • • • • • • • • • • •					!		1							
Φ. Δ. Δ. Φ. Δ. Δ.			: :	66. 4566 (.h	7.8(4.4564	(/.B(4	. ne.	. 841. FEA. PEA.	4	A' r'E HBr'E A'	1408.4.8.4LI	РЕ ИР	_		•	`	_	G 6 (€ . ₹]		•	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	*	_	10.3				/18		. P & T T Q	-	_	4. K. 40C. AF.		. J. IET PET			1	_	i		•	_		X H	FT#PFACYER YES	-	11 La 14 La Bra	J. ID D.	لنا	Rehirkpure		2072	KHUE
10.40 0.001 0.000 0.00		-			•												1						-				•	İ				!					- 1		İ		i		1	Ì			7 T		ŀ						HUTE
40.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40		5 50,	0000	NAC J	2020	3333	40E7	4117	4114	4127	₹21 ♦	3 000	40E3	9004	4069	4040	40.5	3 3 3	1000	0000	0000	3000	- Herein	1004	7000	a F C	1804	\$ 500 C	6CP7	2454	5154	-5154	23F0	HAGO	0000	23F0	23F 0	7567	מממח	23F0	75.67	0000	23F0	2350	17EA	0000	2060 2060	87FA	0000	9847	3244	87FA		YOKMYG	BINHELL
40.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40 4.410 50.40	•		•														i						ì							į		- 1							Ì					1					:					A	BIR LALE
40.40 40.00 40.40											,						ļ										1			į		1					,							İ					,					75	3 -
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					i						i						- 1						Ì				ì														ı			1				1	-					4000	1703
										`	1						- 1										ŀ			i														:					į						
	 •						313 10	40		100	j						- }		ļ		1				1		!			;									1					ļ									1	1	١

									:			† ! !			ROC	s	:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	, **		, 1							
			!											-																		
070B	0.854xxx4	E.Seu B>>AA	: ;	4508 E.CSD.,/USCOB'EL 4340 B=.(4., An) 4'*	:	E	0868	8156 . J. M C. 6210. U	Hi. NAAC	3E36 1. 10. X. Con. D. 26	E. 4. D. vD.	Ę .		OCAGO BL. FUNZ. U A	1. d. l.		1068 fb.4. ftt. n.	DSF.D.E-1	•	6450 .J.10C.Tubici 606E DoU2D.=EDI7=EW.> 7547 No. 660 NOC.		• = =		7 - 1	; : :	DG+. D. C	1644x.D	o al in	53E/ UDGAUSD1UKBU3G A7AG B6N!AFR A2G A.º	1	PAGE 2	(- · ·
		C378 6640	00000 JULY	44F3 E3EF 4260 C164 D940 C160	0000	1586	0000 0000 1278	67.65	BAGO - 1	į	9780	; -	E002	1092 9400 C118 0000 0000 0278	94811	LUCAG.		6144	0000	432F 54F5 44CY 44CY 42S7 42S7 42S7 42S7	0000	742E	0000 0000 0278	6080	0000	CUBO	1	572C 4	448A 334B 4231 Ci5A 47A0 .Ci8N		NATA FILE RINARY DUNP	
0000 0000 4444 3 525	0000 0000 0000 0000	4484 D7FD 1.1FA CCAO	0000 0000 - 4480 L093	4485 81 NF L187 AEAG	0000 0000	4487 2451	0000 0000	4486 1522	Li34 ABAG	0000 0000 4485 5887	4465 7079	0000 0000	4484 A423	0000 0000	4483 604B	C137 7640	0000 0000	4462 4520	0000 0000	4462 3DES	0000 0000	4483 F587	0000 0000	4485 D89E	0000 0000	4465 5456	0000 0000	4483 6FUR	4484 FF7.5 C166 F260			
108 0000 0000 108 08:4 0421 108 4512 5999	į		0000	218 4511 6503 226 4230 1430		4510	248 0000 0000	OBCA .	42.5B		4510	0000	44FD	246 4234 2034 248 0000 0000	280 081.A	0311 8124 917 4		44F3	0000		0000 BOS	44EU 49.88	0000	İ	2000	44E7	0000	J	378 44E4 A641 380 4236 6EA1		12135138 29 MAR, 1984	

			ROCS 3		
i					
ļ					
SANDER F	11.4FD.4KD3/Y U.D.564./50.8 ATA ANN ACG U.XED.1.50JF D.X.01.V8UFC AND ATA AFR 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	### ### ##############################	CID.F.DEE0040XCP20040XCP201 42. 4X X P ZMD D 9. DI. 1601A .18. t.B. t.B. t.L10. 4601 x B .10. 6601 x B .1	11; 30; aof 11; 10; 30; aof 11; 10; 30; aof 11; 10; 30; aof 11; 10; 10; 10; 10; 10; 10; 10; 10; 10; 10;	16.00 + 0
Decute alb		71-0 0-10 1-10 1-10 1-10 1-10 1-10 1-10	14 10 10 10 10 10 10 10	B*. VE BY C DOLC DOLC DOLC DOLC DOLC DOLC DOLC DO	11.16. 50.1.69 F1.5B!
4486 9900 4250 3158 0176 2740 0278 1890	!	1187 1284 9278 1020 9278 1020 9278 1040 9278 1040 9278 1040 9278 1078 9278 1078 9278 1078 9278 1078 9278 1078 9278 1078	!	0278 2328 449C 9834 6218 4558 0278 2454 0278 2454 0278 2454 4496 333C 4678 2580 4678 2580 424F 35C4	26/8 26AC 4446 41R6 424E F9C2 U271 EE9A
CF0C F2C1 1446	4102 0000 0000 28F6 28F6 28F6 28F6 28F6 318D 318D	1440 0000 0000 0000 0000 ERIES 0900 BESA0 0000 8646 8646	0000 660B 8025 FCAU 0000 941F 0531 AP7A 0000 Liez F251 376A	2000 2435 2435 1628 0000 3461 0667 0000 0000 0000 0000	2962 44 2962 42 6726 42 6216 62
4416 4486 C146	4418 0000 0000 4418 4418 0000 0000 4418 4418	44117 4448 611E 61060 9412 4418 6448 6448 6448 6448 6448 6448 6448	0000 4414 4443 6110 6000 4416 4441 6212 0000 44411 449E	9000 441E 621B 6000 9000 442B 6449A 621B 6000 646B 646B	00 0000 61 4423 96 4496 EA C220 DATA FILE
E231 F640 0000	6.4450 6.4460 6.460 6.000 6.000 6.000 6.000 7.000 8.00	1340 0000 6461E 846E 11860 0000 11232 1123	0000 C3B1 0730 5160 0000 25H2 698B 94BB 0000 0415 C492 C492	0000 0000 0000 0000 0000 0000 0000 0000 0000	1761 8396 87EA
4485 4485 6188	44488 2444 20000 20000 4488 2488 2488 24	00000 00000 00000 00000 00000 00000 0000	0000 4498 1498 1490 0000 449F 0000 4484 1218	0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000	i l
6424 8675 6436 9000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	10000 0000 0421 0937 0000 0421 FEBSE 9000 0421 693E	0000 0421 1084 2851 0000 0421 751E 251Q 0000 9444 8444 8444	0000 0000 0000 0000 0000 0000 0000 0000 0000	4EE 0421 4EE BB18 277 0173 27 MAR, 1944
081 4 44F2 4235 0000	681.4 44E0 42.5 0000 0000 44E0 44E0 681.4 44DF	0000 0000 0000 0000 0000 0000 0000 0000 0000	0000 0HLA 44E1 422E 0000 0HE2 422E 0000 0BUH 44E4 44E4	0000 086.B 446.6 0000 0000 086.6 446.0 086.0) A 44 (
1955 1965 1965 1965	885 885 985 885 885 885 885 885 885	408 408 408 408 408 448 448 456 456 456 456 456	468 478 478 468 468 498 498 498 498 486 486 486	9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	528 539 539 540 12:35:33
			B-65		1 1

## 1 HE								1		
WATER ORDER WATER CATER ""><th></th><th></th><th>DUMP</th><th>PINAKY</th><th></th><th>134</th><th>4</th><th>AR, 198</th><th></th><th>12:35:38</th></th<>			DUMP	PINAKY		134	4	AR, 198		12:35:38
WORDS ORDS WORDS CORD WORDS CORD WORDS CORD WORDS CORD WORDS CORD WORDS CORD WORDS CORD WORDS CORD WORDS CORD WORDS <th>:</th> <th>æ.</th> <th>•</th> <th></th> <th></th> <th>:</th> <th></th> <th>472h</th> <th>421B</th> <th>777</th>	:	æ.	•			:		472h	421B	777
		نیا +	_	; :			44F6	6571	4511	6FB
0.000 0.000		•		۰.			0000	0000	0000	6E8
0.000 0.000		. 1	1	ĺ			C22F	45.64	4210	919
10,000 0,0		J.	246	1			44F2	33FC	4511	909
0.000 0.000		TANGEN TO THE TANK					0000	0000	0000	6C8 Afre
0.00.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0		B. Y. Bilzho.						DAEC -	4211	000
0.000 0.000		A throstia	1			67D3	AAEC	1240	4:137 4:134	ABIL AGU
0000 0000 0000 0000 0000 0000 0000 4278 9778 11111111111111111111111111111111							0000	0000	0000	6AB
0000 0000 0000 0000 0000 0000 0000 4278 2718 11110 1110 1110 111	1	ų z	ì	i		:	4467	B329	421D	640
0000 0000 0000 0000 0000 0000 0000 0000 4278 2708 111111111111111111111111111111111111		J. 1 [18.			1		44E2	0421	680	789
0000 0000 0000 0000 0000 0000 4278 2718			[0000	0000	0000	0000	899
0000 0000 0000 0000 0000 0000 4278 2718			7				44E5	9AFE 6721	4510 421E	6/8
0000 0000 0000 0000 0000 0000 0000 4278 2748 3718 3718 4444 4444 4444 4444 4444 4444 4444 4		• •	}				44DD		CBCA	676
0000 0000 0000 0000 0000 4278 2746 4110.7 Ma. 11ct 41 4446 5141 4442 4467 4110.7 Ma. 11ct 41 4446 5141 4442 4467 4110.7 Ma. 11ct 41 4446 5141 4442 4467 4110.7 Ma. 11ct 41 4446 5141 4442 4467 4110.7 Ma. 11ct 41 4446 5141 4442 4446 4444 4444 4444 4444 4444 4		BILLBIKJRI		Ì	1	1		47 17 -	4776	099
0000 0000 0000 0000 0000 4278 2768		W.	_					6787	4510	658
0000 0000 0000 0000 0000 0000 4278 2708		id Xdi T]			0000	0000	648
0000 0000 0000 0000 0000 0000 4278 2708	ss :		- }		1			4230 ABBB	4310 421E	0.00
00000 00000 00000 00000 00000 427B 27tB		-1.104.6068.D.	-			1		1787	A.180	450
0000 0000 0000 0000 0000 4278 2768 5LCB 44RA 91R7 4425 976A 4494 4059 5LCB 44RA 91R7 4425 976A 4494 4059 5LCB 44RE 5161 4494 EEUC 424E 98A1 Ua>								0000	0000	62B
0000 0000 0000 0000 0000 4278 2768 9LCB 44FA 91FZ 4425 976A 4494 4059 9LCB 44FE 5161 4494 EEUC 424E 9BAI Ua) 46A21 44FE 5161 4494 EEUC 424E 9BAI Ua) 46A21 44FE 5161 4494 EEUC 424E 9BAI Ua) 46A21 44FE 1420 4493 4760 424E 20FB USF E6A2 44FE 122 F420 4493 4760 424E 20FB USF E6A2 44CZ F420 4493 4760 424E 20FB USF E6A2 44CZ F420 4493 6BAI 4240 A345 0 63A2 44CZ 141C 442A 443F 7640 A345 0 63A2 44CZ 141C 442A 443F 7640 A345 0 63A2 44CZ 141C 442A 443F 7640 A345 0 63A2 44CZ 141C 442A 443F 766 C229 66FA FE 64A2 44CZ 141C 448F 153A 4240 A345 0 65AE 64CZ 3185 442I 128Z 448F 2FUC JE 64A1 44CB 16A2 446F 16A2 4ABI 20AB 0 64A1 C22A 15A2 6ABI 20AB 0.00 6ABI C22A 15A2 6ABI 20AB 0 6ABI C22A 15A2 6ABI 20AB 1 6ABI C22A 15A2 6ABI 20AB 1 6ABI C22A 16AB 16AB 16ABI 1 6ABI C22A 16AB 16AB 1 6ABI C22B 16AB 16AB 1 6ABI C22B 16AB 1 6ABI C22B 16AB 1 6ABI C22B 16AB 1 6ABI C22B 16AB 1 6ABI C22B 1 6ABI C22B 1 6ABI C22B 1 6ABI C22B 1 6ABI C22B 1 6ABI C22B 1 6ABI C22B 1 6ABI C22B 1 6ABI DBB3 4ABI 26CI C2B 2EB 1 6ABI DBB3 4ABI 26CI C2B 2EB 1 6ABI DBB3 4ABI 26CI C2B 2EE 1 6ABI A4BI 26CI 26CI 26CI 26CI 26CI 26CI 26CI 26C		w a	_				4408	0050 45FF	4510	819 009
00000 00000 00000 00000 00000 4278 2708		: +	1	İ	1	ĺ	0000 44Di	0000	0000 0000	608 616
00000 00000 00001 00000 00000 4278 2768		: i	i	,	•	1	C220	74.45	4221	97.0
00000 00000 00001 00000 4278 2768	The second secon	Maria					4400	1240	4737	0 2
0000 0000 0000 0000 0000 4278 2768 5LCB 44R6 91R7 4425 9786 4494 4659 .J. [Bit / 4426 4426 4246 4944 4659 .J. [Bit / 4426 426 4246 4944 4659 .J. [Bit / 4426 0000 0000 0000 0000 0000 0000 0000				1		! 	0000	0000	0000	558
0000 0000 0000 0000 0000 4278 2768		<u> </u>					44CF	SAEF	44FB	90S
0000 0000 0000 0000 0000 4278 2768			:	1			4400	0471	CHURA	Siller
0000 0000 0000 0000 0000 4278 2768			į	1			0000	0000	0000	7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2
0000 0000 0000 0000 0000 4278 2768		Dx.					44CB	A55A	44FB	268
0000 0000 0000 0000 0000 4278 2768		: -					4406	C 421	CUBIC A	SBC
0000 0000 0000 0000 0000 4278 2788	1						F/73	F 496	4223	200
0000 0000 0000 0000 0000 4278 2788		Ω	240				44C7	65AE	4416	258
0000 0000 0000 0000 0000 4278 2788			1		ļ	- 1	44000	0000	0000	200
0000 0000 0000 0000 0000 4278 2768 0421 4484 9187 4425 9746 4494 4059 8LCB 446E 5161 4494 EEDC 424E 9881 - EARE CATA BUSA C225 - 6694 6225 - 2614 0000 0000 4000 4678 2904 6422 448E LHEC 4492 1689 7600 426C 542C 6493 4760 424E 20FB	!	HOO. FAC.		LL *			C273	EF 76	4554	30.
0000 0000 0000 0000 0000 4278 2768 0427 4484 4059 8LCB 446E 5161 4494 EEDC 424E 9BA1 - EARE CASA BOSS - 6694 B225 - 2414 0000 0000 0000 0000 4092 4699 5094 6492 4492 4699 5904		_	24E	4			4402	ESUF	441.3	578
0000 0000 0000 0000 0000 4278 2768 0421 4424 4059 8LCB 446E 5161 4494 EEDC 424E 9BAI 4494 C225 -6694 6225 2814 6200 0000 0000 0000 0000	!		1.2	,			44 FE	(445)	₩.	14 14 14 14 14 14 14 14 14 14 14 14 14 1
0000 0000 0000 0000 0000 4278 2768 642 642 4494 4659 8EUG 446E 5161 4494 EEUG 424E 9BAI			·			1	6000 -	4.000	4248	17.
0000 0000 0000 0000 4278 2768 0421 4484 4059							44 Er	SLCB	44F I	558
ACA BY CONTRACT CONTR							7 7 7 7 7 7	6421	0000 0000 0000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			3			of all of	44.00	0000		

Color Colo			· management · · · · · · · · · · · · · · · · · · ·				1								!	!!!:			5 3	oc:	R.				;						. 1						. !			1	•	
0.000 0.000															!	i			į									1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										,			
0.000 0.000			†			1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!											;																								
0000 0000 0000 0000 0000 527H 0423 44h 1 866H 4441 016C 4246 0000 0000 0000 0000 0000 527H 0421 44F 1 866H 4441 016C 4246 0000 0000 0000 0000 0000 0000 122H 0421 44F 1 664 447 622 646 622C 0000 0000 0000 0000 122H 0421 44F 1 644 1 624		B., CH2, ZR2, JB2B	. J. !E. 6 E. Slif. 0. 05-		4 4	. J. IE. COM		_	J. LE. N. Di ZCDS1	B.	E.	. J. !E.		ша	-	B. 1 KB/m. B/	E. BrE. >uDw	: 4		4	:	E. MFE. (DDV4 R. & B. St B-	• 1	7	E., DE, XUB, X		,	()] (E.)		:11 G	U1	B.F.HH.	EE.2.U.A	:	R. NCKEF. BA	E.HBO.LVD.				9-1-	•	
0000 0000 0000 0000 0000 0000 0000 0000 0000			471 248	1					١			:		_	i	i		278 476)	i			i	ļ				47A		_											278	
0000 0000 0000 0000 0000 0000 0000 0000 0000	1.	HACA	31.58	0000	0434 ACI!A	1608	0000	1000	B728	- 1ARA	AF26	#829	0000	B38B	645B	056A	AGJA	0000	09BA	F 3 41	0000	8420 FD34	D4ZC	D16A	7620	0000	6146 6146	0497	0000	4056	ZIED	377A	6173	0000 BC23	99EA	DF2D	5333	0000	2000	8458	0000	
0000 0000 0000 0000 0000 0000 0000 0000 0000		1732	444E 4473	0000	4474 U232	4440	0000	4474	4440	0000	4475	444R	0000	4476	444B	C22F	44/7	0000 4444	C22F	4478	0000	4479	4446	C22n_	4478	0000	022E	4445	0000	4470	4444	C22E	447E	4443	C224	447F	4443	2000	1057	C 4 4 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4	0000	
0000 0000 0000 0000 0000 0000 0000 0000 0000	IIA	9E.PB	425F EF 12	0000	2657 2658	1346	0000	7E07 7826	0027	0000 0000	3FF2	H 180	3000	0063	63F G	A11/A	BE 75	0000 2338	ABZ8	7969	0000	3064	9000 HB64	1886	F855	0000	204A	279E	0000	74EA	41C6	838 A	3270	2556	E60A	1,086	Kr 13	0000	36.26	EVE /	0000	
	i (0.732	4512	0000	4512	4512	0000	4512 C233	4511	C.232	4512	4511	0000	4512	4511	_ C22E	4511	0000	1.22E	4511	0000	4511 122F	4516	_ C22E	4510	0000	4310 C22r	4510	0000	4510	44FE	0000	4510	9000 44F6	C22A	44FE	441	2000	1277	1 44	0000	
00000 0000 000	iki 1984	SEC	3655	0000	9900 E524	9421 9503	0000	6826 4580	0421	#±26	A388	242	2000	6F 15	(45F)	97ER	3854	0000	2045	0165	0000	CDE6	2421	362B	9864	0000	A565	1260	0000	3076	0421	1.604 0000	FLBC	0000	6EC3	0.802	1250	2000	6675	1740	0000	
		4274	4514	0000	4214	9,147	0000	4513	VECA	4242 0000	4513	HOH6	0000	4513	680,6	4216	4513	0000 0000	4212	4513	0000	4512	OELIA	421B	4512	0000	421B	. स्टाम्स	0000	4512	OBIJA	9578	4511	OCCO	4216	4511	CBLA	0000	1104	0BC#	0000	
7.08 7.16 7.16 7.16 7.28 7.28 7.28 7.28 7.28 7.28 7.28 7.28	12:35:38	7.1H	HBC BBB	HAH	948 846	474	888	8/8 8/8	H76	79×	828	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	848	838 846	H36	773	818	808	BUG	7 8	93/	756	707	71.10	89/	ZAB	787	727	188	778	7/7	797	45.	94./ 7/	747	7.58	/36	728	97.7	717	70B	

		• • • • • • • • • • • • • • • • • • • •			; ;		1		!		
		1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年,1997年	DIME	RINARY	TATA FILE	1.41	4	AR. 1984	8 27 HAR.	12135138	
	•	969A B. N&RB R7) JR7	C23/	49EA	(573	00FA	C238	4 BAS	- 4210	TIRE T	1
	i i	<u> </u>	424A	863A	4467	A8C4	4515	9005	4516	A78	
	:	SZE4	0278 4465	0000 FC98	0000 4459	0000 E498	0000	0000	0000	A68	
		B B7:ZB7+1	. <u></u>	2BB4	C232	600A	L237	174R	4210	460	
	: •	E. LXE UH/		ZFIC	4468	801C	4515	6CFB	4516	ASB	
		5688vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv	0278	0000	0000 4459	0000	0000	0000	0000 0800	A48	
		H. JZBZTJB7	·	Br 9A	C237	F4EA	C237	CARS	4210	440	i
		E. G	424A	215E	4469	5450	4515	477F	4516	A38	
		558CxU.	0278	0000	0000	0000	0000	0000	0000	A28 A.50	
		B B7.	:	4B3A	C237	995A	1.237	18.80	4211	929	;
		'n		DADE	4469	285A	4515	20F7	4516	AIB	
		3400	4467	27F 4	4458	6926	4514	0421	DBCA	975	
		B. Mr B23. B21		1984	1237	5004	C 232	4DE 6	4211	9000	
		111		H09A	4468	F93C	4214	F7CS	4515	9F8	
		0334x04	0278 4468	0000	0000 4458	3895	0000 4514	0000	0000 0HCA	7EB 9:0	1
		C474.B. ERGIBBELBUIL	į	1	C235	4666	C236	BAES	4217	0 1 A	
		- 1	-[1	4452	1253	\$51	200	CHH!	STE STE	3
3		B. URB6=1834		DZAA	C235	2D66	C236	D5E2	4211	935	-68
cs		DACE E-\$2EADLBUZN	4248	1015	446C	59ED	4514	A432	4515	968	В
. ·				2000	0000	0000	0000	0000	0000	846	
		DISG E.XTE.FADM.(BJGV		1F3C	446D	66C1	4514	78F4	4515	958	
		4FB0xUV	0278 446B	0000	0000 4455	0000	0000	0000	0000	988	
		ENSA B B4. JB4. B4ME	424H	1594	440E - C234	5173 92EA	C234	HEBYC HBYC	4010	8/A	
		- †			4454	2000 2002	4513	0000	0000	80%	
		K. M. B4z	1	;	- 0235	E9EA	. C234	TIME	4212	798	1
		. –	424H		446E	FE98	4513	1F18	4515	926	!
		•		0000	0000	0000	0000	0000	0000	948	
The second secon		2154 N. : 844 . 847 841	424A	8548	446F	C686	4513	EFE7	4514	9.5B 2.46	
		ACSK .J. IE. MIS.SDM.		0000 1F53	0000 4453	1,600 1,600	4513	00000	0000	92.5 8.30	
: : : : : : : : : : : : : : : : : : : :		B. SGF3.		PHFFA	0232	0334	. C233	23E.7	4213	3.3	1
		CALA E. B. E. A CIPASBUL.	4249	6E73	4424	1 3VE 9326	40.04	1.84	47.4	3 6	
		•		0000	0000	0000	0000	0000	0000	80.5	
		ECCA R. CHRZA:BZ.JBZ.J	424H C232	7777 7778	1471 C232		(232)	13K2	47.74	E 3	
	•	60H1 . J. (E. 2LDd*cDo 'Q		2663	4483	H260	450.2	1940	4. F. A.	3 S	
				2000	0000	0000	0000	0000	0000	8 49	l
	1	113F7 E.F.E.WHDR.VBUSH JOSEA D.A.FROF.BOSERJER	;	6276	64/27	2468	\$ 10\$ 27.23	6685	47.14	8-JR	
		=		2672	4450	7A1H	4512	0.4%	CHCA CHCA	1111	
		2838	97.40	0000	(in Color	14000	0000	0000	Cocco	3	

-	7						
		MANON DIMEN	0 3 11 3	73.90	473	400 100	1014818
	BZFA AYW, B=L*H(HZHSZ,	E806 _ 0230	C23C. E8	II 4CAA		41117 0786	
	14 H		i			•	
	-						0.28
	4104 A15, R=, * E=2ZH=1,		•	ĺ		i	
	1. (E. G.)		:	S CRE	4516 4517	0421 0421 1447 8124	
	6720xG	0000 0278					000
						I	
	4856 . J. 1E. #+D1PDD13HZ	1:04F 4451		i		,	
	!!	i	C23C - 60	1		1162 20D6	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	_	i i	;	3010		4517 F604	
	64557	9000 0278 9086 445D	0000 0000 0000 0000 0000				ROCE
	Anm. Birk		i		!		
	_					4517 07.	
	484 . J. 15. Z. D.18#DCH4	3823 445E	445µ 38	2695	4516	280 0000	DHG DHG
	- 1		1			91E7 EEBG	
	4C36 E. BIE. W. DA. BKL 6	7F02 424B	4461 7F	-	1	4517 BBE9	969
3		0000 0278					
:s	ZUCS E GE.U DABGBK-E. Z654 AJBBKZ.	6546 4248 6546 C23B	4461 E4	BBDA	20 4516 71 : C23E	451/ 79C0 41EA 3Bi'1	Betr
RO	A IE	i			- 1		
	6144xb	0000 0278	0000			0000	868
				6 1556	BF 4516	4517 7bBF	
	2049	0000 0278 HDD9 4460	0000 00			0000 0000 08:4 042:	
	OCEA APEXBIABBIANES.Z.			1		:	,
	- 1	B66E 4961	445D BZ	1	21 4515	1740 B.1140	H.36.
	•			į			
	1826 As a Bia a Bick Bia	4066 - C236			04 C23A	431/ 4838 41F3 2004	
	A455 .J. IE. 3vblbesu			5 BJF6	1		1810
	1	Ì	1		ļ		}
	0940 E. & YE. R/DollbK.	B150 424B	4464 B1	522F	4516 74 4516	4517 26b9	AFE
		1					
	3826 6.5x89 189, JB98# 5094	8544 C239		9 61RA 0000	7d C239	41f 6 53/d	3 % 3 %
	J. 1E. F. DL.	-		!		1	i
!	œ.	DAFA C238	0000	B ACKA		41 ff a 604f	3 2 T
	E, ZHE.			_			
	-						
	77.0 H K.S. K H.K.		0000	4.5		7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 446
		0368 424B			34 4515 5	4648 9104 9004 9104	
	. J. IE	_					988
	5910	0000 0278	0000	0000	(A)	0000	Ť

		PAGE 9	- 	RINARY HUME	A FILE	DA.	₹	AR, 1984	B 29 MAR.	12:35:38	
									- :1		ı
		3EAA A≜,!HLT,BLNJBL>#		. 4E4A	C24C	7486	C24C	7897	4143	FE&	1
1		BASE ASSESSMENT HERE		1168	4450	400A	4514	1476 1476	4518	F 58	:
				0000	0000	0000	0000	0000	0000	FA8	
		- 1	1	0556	C24C	3628	C24C	6HFE	4165	F 40	
1		9463 . J. Le Dw*, DM, C	4441	2684	4477	841E	4519	042	08CB	1.7% 1.00	
		-		0000	0000	0000	0000	0000	0000	F68	
				ECAA.	C24B	EF26	C24B	7600	4187	180	/ [†]
		E. MYE	:	920A	4451	7447	451A	E059	451A	F78	
		4406		0000 4F36	4475	6FEB	4519	642	080 080	F 70)
			C248	91144	C24B	1418	C24C	3965	4169	09 Y	'n
		_		2010	4452	SASE	451A	CF07	421A	F188	<i>A</i>
		. J. 1E. V		6808	4474	2601	4519	4421	H.IHO	f 50	,
		HECKE		0000	0000	0000	0000	0000	0000	F 48	
		1593 E. #GE. 5. UK. 58J 7547 ARV B. MBC.	424H	0233	4452	537A	4104	1 144	431A	F 38	
1	1	7	:	FEE4	4472	346E	4512	0423	OBUH	F 30	:
				0000	0000	0000	0000	0000	0000	F28	
na.com/man · y		2234 AtLCBN.ZBNY.BNB1	C24B	73E4	C24B	REDA	C24B	6CC3	4 i BB	F20.	i
		- 1	ł	4965	4472	787	4519	0.72	е но	F16	
3		:		0000	0000	0000	0000	0000	0000	FOB	
5			į	2EEA	C24B	44EA	C24B	ASED	416D	EGG	İ
oc.		1203 E . Je enfesse i	444F	27.77	4471	17.7.1 1.7.2.1	#175	1767	VELA	70.11	٢
R				0000	0000	0000	0000	0000	0000		, - 1
		:		0504	C24B	6779	1240	CSIE	4180	EFU	ţ
****		_	!	BARB	4454	nsac	4519	32B1	4514	874	-
		BOES N. P. P. P. P. P. P. P. P. P. P. P. P. P.	0278	0000	0000	0000	0000	0000	0000	80B	
			1	236A	C.24B	6t.5A	L24B	A6BE	4) BI	E1:0	1
		E. GME	Ì	USCA	4454	C \$20	4519	40ED	4518	E E8	1
		A A A A A A A A A A A A A A A A A A A	0278	0000	0000 2000	0000	0000	9000	0000	E P E	
		42.1BG.	:	8024	E248	91न्छ	C247	Zr B.	41B2	E40	1
		_		30.67	4454	6560	4519	3421	4314	E98	
	;	/EVOxxxx	027B	0000	0000	0000 #444	0000 4533	0000	9000	B 2 4	
		43.1		Визи	1246	BE LA	- 0.246	4 187	4183	78.7	1
		_		5027	4454	A9E.1	4519	2949	451A	t / 8	
				72H2	4471	AAC.	4518	0421	080	1 7c	
		ANNA MO. BY WEST OF SIGUR		6000	0000	0000	0000	0000	0000	1 4 A A	
			424A	F 868	4454	9620	4519	1783	451A	8CB (1)	
		1		H7.7H	- 446F	S1152	45.18	1240	9, 1141) ·	4.1	ĺ
				0000	0000	9909	0000	0000	0000	E48	
				26AA	(7.44	436A	9573	(38kg)	4 16 /	4.00	
		4		100E	445.5) (C) (20174	0470	4.1.4) 3 4 4 4 4	
		ABOUT	5278 6468	0000	0000	0000	0000	0000	(0000	æ :	
And the second s		49.18		H.244	C244	BACA	C.243	74114	41 By	10.1	I
		_		2571	4456	60F7	4519	E841	4,119	E18	
in the second se		4 Ne R . J. 1E. PSDAB. DSN.		31/29	446	\$137	4518	2000	2 2 3	503	
		(100)	3,00	1444	0000	000	(10,4,5)	6,4,4,4	97.77	00.3	:

!

PAGE 9

	2100 2100 0000 0000 1197A 0000 0000 0000 0000 0000 0000 0000 0			10000 00000 00000 00000 00000 00000 00000	44117 44117 44117 44117 44117 44117 44118 44118 44118 44118 44118 44118 44118 44118 44118 44118 44118	D. + C. 1 BE ME ' C. 1 BE ME ' C. 1 BE ME ' C. 1 BE ME ' C. 1	C. C. D. C. C. D. C. C. C. D. C. C. C. D. C. C. C. C. C. C. C. C. C. C. C. C. C.		ROCS 3
1108 0000 1111 4444 1118 4446 1128 0000 1146 0000 1138 4418 1148 0000 1158 4418 1158 4418 1158 4418 1158 4418 1158 4418	00000 1 6000 211 C 00000 10000	<u>. ه</u>	4393 4448 6 4393 44418 6 4394 6 44419 6 44419 6 4394 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0000 0000 0000 0000 0000 0000 0000 0000 0000	4418 4315 4522 6000 6000 4419 4315 4522 6000 4419 4419 4419 4419 4415 4522 6000 6415 4522 6000	BEDLE 71- BEDLE 71- BEDLE 71- BELLE	C C C C C C C C C C		

ATTACHMENT 2 INPUT CO-RAWINSONDE FILE (CONTROL AND TAB)

	700.
DEPTH SMILE S	
र चारामार जातामा ──	
0 to 101135 1811	
San GR Sull TON III C	
STAFFALL UX = .000000 F175ES	
51141 615 U1 : 10 00000 + 17SEC	
SURFACE WIND DIRECTION = DE	
SAME GLE MINI SPEED = GOOGO 17/8EC	
CINICA MINER I	
न्तर राज्य	
1 11200	
PRAT = NUTI	
ALTITUTE INCHEMENT # 820.21	
2.41	
TRUFOFFISE WIND DIRECTION = 250.0 DEUK	
INDIVIDUAL TIME & 3660.0 SECONIS	
THUR OPAUSE GEOFORENTIAL METGHT = 56307.22	EET
(Ruraradse bell ruant = 99.90 Bed. C	
TNUPOPAUSE GEOMETHIC REIGHER - 56510171 PER	
Harriettischer Laka E. Ala 23.	
TRUFOPAUSE FRESSURE = 68.91 MBS	
TELIFILISE TEMPLERATURE = =27,30 DEG.	
TRUFGPAUSE RELATIVE MUMIDITY = 999,00 Z	
TRIPUPALISE WIND SPEED = 51,87 NAUIS	
STATION LATTIUDE = 28,4833	
TERMINACIUM BELBUIENTAL HEIGHT : 113912.5	13.3
TERMINATION PRESSURE = 5,46 HBS	1
FLIGHT IDENTIFICATION # . 0074120018	
SUNDE TIPE = 101	CS
	1.3

O = 2011 PMS STINI

			<u>}</u>					:		1					!								RC	cs	3	3				1				i	1											!				
						į						 			*					1																	!										1			
•	í					i		•					1		•]										1					1					;		,		•	:								
32		?	٠ •	•				25.8	28,3	30.00	32.0	35,3	36.5	37,6	38.4	38.8	37.07		39.5	39.7	39.9	40.4	7 0	40.4	40.5			B (40.9	41.0	41.0	41.4	1.14	41.1	41.2	41.2	. 41.2 .	41.2	41.2	41.2	41.2	41.2.	41.2	41.2	0.000		!			
7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		18.70	23.58	0.00	19.27	17.62	15,76	13, 35	15,81	16.30	2/ 0	6.47	64.9	4.49	4	m :	78	3	40.1	1.13	· 8	24		. 82	88	35.	- 27	B ;	: :	.21	.31	- 26	7.5	90	3	40.	¥0 ·	. c3	3 5	3 6	10.	.01	٦		00.00		!			
SHK /SEC	!	600.	. 0.52		.005	500	.002	.003	800.	30.	100	23.	. 613	400.	970.	. 005	616	ECD.	910.	.003	100.	190	100	900	Z00*	600.	1191	800	500.	400	. 005	400	500.	700	£003	.003	1004	~; t	COO.	800	.007	.010.	110.	300 ·						
vs NTS		342.8	345.3	2.042	343,2	342.2	341.3	340.8	340.2	339.5	338.4	337.7	336.4	335,1	334.1	333,8	172.0	330.7	329,5	328.3	327.1	326.6	323.0	322.5	321.4	320.3	319.2	318.0	315.8	314.8	313.7	4	311.4	108. 7	307.6		305.1	303.7	2024	299.7	298.0	236.6	295, 1	293.7	200.	F 4 1 / 4				
ž z		_	365.6		• ^	: 04			œ :	_		227.2			04	162.4		, (i		2	N:		p 0	, P.	-	•	7	123.8	119.2	. 🛊		2011	106.4	100.7	47.6	•	4	69.6	1.74		80.0	-4.51	75.4	73.2	, e		1	<u>+</u> -		
DENSITY GZM3		1215.76	1164.24	00.2511	1081.18	1055.86	1030,45	1003.95	976.08	953,26	7.8.40	880.76	861.06	842.04	821.37	797, 79	758.14	740. 78	722.96	705.48	668.56	671.15	447.75	622.06	605.93	569.94	574.75	259.67	530.02	515.54	501.45	487,95	474.29	449. 68	436. HZ	424.90	412, 23	401.40	370.21	. ~	358, 42	348. 08	138.25	328, 15	v ^		110	¥	-	•
AB HUM G/ħ3		13	17.76	2 7	0 0	M	6.0	30	75	₹ ;	0 7	4.97	4.98	3.50	2.66	۲. د ز	7/1	3.7	8.	. 91	. 73	3 5	. 52	- 69.	. 74	. 43	77	91.	91.	18	• 28	81.	01.	20.	45	•	63	0	3 5	33	10.		.01	3 9	93.93	•				
#15.		100.0	3.0	0 7 7 0	20.05	7,001	97.1	86.4	68.3	4.	0.70	-	9.49	52,0	43.7	6 : : :	777	14.4	22.7	2B.6	25.7	27.6	7 · ·	5.7	52.2	34.3	777	O 9	22.3	33.4	55.1	42.1	28, 1	20,00	2048	24.3	-23.2.	23.8	7 97	31.6	32.7	32,3	34.3	o • • •	999.0	2007		τ		
FRESSUKE RBS		1018, 30	787.B1	10101	907.56	Hd1.4	16.22.61	831.05	806.80	783.19	٦.	715.59		673,68	a.		505 77	577.45	559,57	542.13	525.10	508-50 462 32	476.52	461.16	446.17	יאו	417.36	403.51	376.91	364, 15	351.75	339,67	527.94	305.40	294,52	284.07	223.85_	263,93	244.00	• •	226.94	81	209.96	261.83	, .	3	1	IIE IMBUMIA		
DEW PT C			20.32		16.84	15,47	15.73		10.62	7.19	4	782	.46.	-4,15	-16,32	-23,29	-24.44	-23.H2	-22,09	-21.19	-23.59	27.27	-32.// -34 AE	-26.32	- 24. 45	-30,48	76.41	-40.21	-41.65	-40.36	-35.02	- 19.50	40.04	-48.08	-52, 40	-52,85	-54, 72	-56,36	-37.30	-52,49	61.43	-63.41	-65.03	77.99-	36.66		Tanacan March	MIGNIMHY		
TEMP Defit (*		16.50	20.32	10.0 7	16.94	15,42	14.21	13.48	12.50	11.66	/B • 01	60.0	6.93	4.95			77.7			-5.65			20.01				1		-25.45		-28.65	- 1		-36.57					47.05					9A 46	-60.73			3		
SFU ATS		?	H .	2	7 (C)	•	9.7	4.6	10.7	11.B	15.			14.8	13.H	13.2	14.2	3.64.5	18.8	19.5	8.6		10.0		ĺ	10	745	27.5	i	i		- 1	3.2.2				i	28.3	77.7	62.4		- 1	28.9	27.7				*		
710 1216			8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	219.7		224.9	22u.4	229.4	232.7	0.7	220.9		206.6	202.6	198.5	7.40.	1.00	235.9	2.56.7	236.0	2.02	244	247.9	2-0-5	248.1	244.0	241.7	242.0	142,14	243.2	444	240,5	248.0	24%	247.9	247.4	247.0	247.1	252.0	254.7	2, Han	262.8	9,497	266.4		7007	, AHE		į
AL 1 1 1 UDE.		5.00	226.00	00.000	1000.00	מח ישבה נ	1500.00	1/30.00	3000.00	2230,00	2500.00	5000.00	30.00.75	3500.00	3750.00	4000.00	00 00 V	4750,00	5000.00	5250,00	5500.00	27,700 000	00.000	6500.00	4/34.40	7000.00	77.44.00	00.0007	H000.00	77 77 77	8500,00	H/2:0-00	00.0004	9500.00	77.007.7	10000.00	107-10-100	10500.00	00.00001	33250,00	11500.00	33.95711	12000.00	32220190	12750,00	3311177	3		. · ·	· ·
τ ,	ĺ		1																	i			i	i ∯-	7 ¢	•				i		ļ																		

!			ROCS 3		; ;	
				. '		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.656 0.656 0.656 0.666 0.666 0.666 0.666 0.666	· · · · · · · · · · · · · · · · · · ·	0.666.0 0.666.0 0.666.0 0.666.0 0.666.0	0.666 0.666 0.666 0.666 0.666 0.666 0.666 0.666 0.666	
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7 \$ 7		- 66.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66		65.65 65.65 65.65 65.65 65.65 65.65 65.65 65.65	
0.000 4.000 4.000 4.000 4.000 8.000 9.000		. 010 . 014 . 007 . 005 . 005 . 003 . 003	0008 0008 0007 0008 0008 0008 0008	800. 700. 700. 800. 800. 800. 800. 800.	.008 .007 .007 .002 .002 .001	
2941.1 2941.1 2941.1 2940.1 2940.1 241.4 241.4	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	281.6 281.8 281.8 281.4 280.4 280.6 281.0	283.6.1 284.3 284.3 284.4 287.4 287.4 287.4 280.4 291.9	2291.5 2293.1 2293.1 2293.1 2293.1 2993.5 293.5 293.5	294.5 297.6 297.0 298.7 298.5 298.5 298.4	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4 4 4 4 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8		444647943344	13.00 12.00 12.00 13.00 10.00 10.00 10.00	8 8 8 7 7 7 6 4 9 3 4 7 7 7 6 4	1 21
244.85 244.85 264.84 264.44 264.46 265.00 26	10.9.26 10.9.26 10.9.26 10.9.47 10.9.47 10.9.20 176.20 176.20 165.20	150, 17 145, 68 137, 65 131, 99 120, 78 115, 78 115, 78 105, 44	75.90 87.45 87.45 87.45 87.45 79.39 72.27 72.27 68.55 65.84	60.53 55.69 53.69 50.94 49.31 45.41 43.41	39.87 38.68 36.27 34.49 33.24 30.78	4994 4994
0 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	66.65 66.75	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	66.66 66.66	66.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	0.000000000000000000000000000000000000	9.556.0 9.556.0 9.556.0 9.556.0 9.556.0 9.556.0 9.556.0 9.556.0 9.556.0 9.556.0 9.556.0	0.666.0 0.666.0 0.666.0 0.666.0 0.666.0 0.666.0 0.666.0 0.666.0 0.666.0	0.666 0.666 0.666 0.666 0.666 0.666	4
17.9, 0.8 17.5, 0.1 16.5, 2.0 15.8, 68 17.9, 68 14.0, 40 14.0, 40		24.00 27.00 24.00 24.00 24.00 20.00	57.45 50.80 50.80 50.80 46.75 44.86 43.36 43.35 38.75	36.66 35.22 32.52 31.26 30.64 27.73 26.67	24,65 23,70 22,80 21,84 21,12 20,33 19,57	DE (ARDA(A
		\$ 5.50 \$	 00000000000000000000000000000000000	999.90 999.90 999.90 999.90 999.90 999.90 999.90 999.90 999.90	06.66 06.66 06.66 06.66 06.66 06.66 06.66 06.66 06.66 06.66	CURAMINSUNDE
6.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24.44.44.44.44.44.44.44.44.44.44.44.44.4	1	-73.45 -73.45 -71.68 -71.68 -67.99 -67.99 -67.99 -67.99 -61.99	62, 17 - 62, 12 - 54, 14 - 59, 17 - 59, 37 - 50, 63 - 60, 22 - 60, 22 - 59, 13 - 58, 17	55.75 56.27 55.11 51.83 51.80 51.73 51.65	13
\$4.25.04.24.24 0.44.24.24.24.24	738164075 	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 - 8 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	marada0704	1 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	984
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	7 2 3 4 5 7 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2560.1 2560.1 2566.5 2566.9 2566.9 2556.0 2566.3 2566.3	255.4.4 255.9 255.9 255.0 255.0 255.0 255.0	25.59.9 25.99.9 25.99.9 25.90.0 25.0	28 hAR+ 1984
1.5000, 00 1.5000, 00 1.5000, 00 1.4000, 00 1.4000, 00 1.4000, 00 1.4000, 00 1.4000, 00 1.4000, 00	1,500,000,000,000,000,000,000,000,000,00	17700,000 1771,0100 18000,00 18000,00 18070,00 18700,00 19700,00	2.554, 60 - 0.0 -	2.500,00 2.500,00 2.500,00 2.500,00 2.500,00 2.500,00 2.400,00 2.4700,00	25000, 00 20276, 66 25500, 00 20125, 40 20125, 40 26240, 00 26240, 00 26260, 00	8 # 1041C
1	1	:	B-77		1	1 =

			,	ROCS 3	1
;	,		,		
		!		į	
0.666	0.666	0.444 0.444 0.444 0.444	0.666	0.666	
66.66 66.66 66.66 66.66	60.60 60.60 60.60 60.60 60.60 60.60 60.60 60.60 60.60 60.60 60.60	56.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	56.65 65.65	
003 005 005 007 009	. 00.5 . 00.5 . 00.5 . 00.8 . 00.8 . 00.8	. 010 . 010 . 010 . 008 . 002	005 006 006 008 008	.006 .062 .999	
298.0 297.9 298.0 298.6 298.8 298.8	299.2 294.7 300.1 300.1 300.2 300.8 301.6	302.2 302.0 301.9 300.9 229.9 299.1	297.9 292.7 298.3 299.4 300.5	302.7 304.0 305.4 306.6	
900000 440040	Vąąąąąą Cæknu voev	200 200 200 200 200 200 200 200 200 200	8 7 9 8 6 9 8 7 9 8 6 9	2.1 2.1 2.0 1.9	!
24.64 27.57 26.57 25.55 24.43 23.54	22.59 21.67 20.62 20.04 19.33 18.57 17.06 16.38	15, 28 15, 22 14, 52 13, 86 13, 35	12.47 12.62 11.52 11.61 10.52	9.63 9.20 8.79 8.41	
66.66 66.66 66.66	66.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66 66.66	66.66 66.66 66.66 66.66 66.66	66.66 66.66 66.66 66.66 66.66	66.66	:
0.666 0.666 0.666 0.666 0.666 0.666	0.666 0.746 0.7466 0.666 0.7466 0.7466 0.7466 0.7466 0.7466 0.7466 0.7466	0.666 0.666 0.666 0.666 0.666	0.666 0.666 0.666 0.666 0.666	0.666	
18.13 17.44 16.79 16.36 15.55	14.41 13.88 12.87 12.39 11.93 11.49 10.66	10,27 9,90 9,53 9,18 8,84 8,51	7.89 7.59 7.31 7.04 6.78 6.53	6.29 5.06 5.84 5.63	
06.66 66.66	56. 90 57. 90 57. 90 57. 90 57. 90 57. 90 57. 90 57. 90	28.88 - 08.88 - 08.88 - 08.88 - 08.88 - 08.88	59.90 99.99 99.99 99.99 99.99 99.99	66,99 99,89 99,99 99,99	
-52,65 -52,74 -52,54 -51,47 -51,47	-50, 85 -50, 11 -49, 55 -49, 50 -49, 35 -49, 35 -47, 19 -47, 19	-46.58 -46.58 -46.25 -48.25 -49.81 -50.99	-52,74 -53,10 -52,10 -50,55 -48,87	-45.60 -43.61 -41.48 -39.71	. :
27.0 27.7 34.8 32.0	55.9 4.45.8 55.25.8 56.5 56.5 56.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	38.1 37.2 37.2 36.3 36.1 34.7	35.9 36.1 37.3 38.9 40.2	40.5 40.8 999.0 999.0	: !
255.7 257.9 259.4 258.8 258.8 255.9	2244 2244 2444 2444 2444 2444 2444 244	255.8 254.1 250.1 247.7 245.2 245.2 244.8	244,2 243,4 242,0 240,8 243,1	247.7 247.1 999.0 999.0	i
27000,00 27750,00 27750,00 27750,00 69000,00 69000,00	28500, 00 281756, 00 29000, 00 29700, 00 29700, 00 39756, 00 39756, 00 39756, 00 39756, 00	31250, 66 31250, 90 31250, 90 3150, 90 3200, 90	32500,000 327504,000 33000,000 34226,00 34500,000	34000, 00 34250, 00 34500, 00 24750, 00	

CONAWINSONNE TARDATA

131531 H

ATTACHMENT 3
OUTPUT TABULAR FILE

ROCS 3 -1624.67 -1584.75 -1350.77 · 970,84 · 845,04 · 1103,45 -4154.81 -3654.63 -2932.05 -2932.05 -2932.05 -2932.20 -2932.20 -2182.20 -1984.62 -1684.86 -1242,23 -1105, 39 -1248, 98. 9.56.98 774.46 423.65 -663.43 -467.74 -553.30 -528, 65 -524, 26 1349.14 1399.48 870.05 HAN 1984 KUN (IME 14:49:54 SUFER LUNI DATASONDE FWN-10D 1008.14 662,81 749.69 566,13 230.26 405.90 546.34 778.9H 381.83 -476-13 552,02 698,01 309,22 -457.37 -408.07 **BB7.6** 1507, 63 1602, 25 1602, 25 1540, 56 1533, 75 1451, 38 1353, 00 . 3412.38 -32214.38 -32214.28 -32514.29 -22047.20 -22047.20 -2205.41 -2205.41 -2205.41 -1216.54 -1216.54 -1216.64 -1216. 1168.37 1052.79 1268.42 1347.23 1505,91 1527,84 1490,93 1450,93 1451,90 1451,68 1515,38 1515,38 1515,48 1515,48 1516,43 1578,71 1088,94 DIFFERENCE/MINUTE ELEVATION RANGE 243,61 2,465 2.55 HINWI7H 13.61. 50.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 40. un SEC Z 35 3 ¥ 46.243.03 46.243.03 46.243.10 46.374.03 46.163 46.1 61559.18 59168.38 55769.23 55254.23 52105.62 50718.74 48427.45 48410.71 48410.71 48521.23 46521.23 50.5154 50.5154 32526.33. 32185.84 31985.84 31704.35 31431.18 30987.38 3043.84 30204.97 29933.32 29584.32 29319.99 23052.51 26902.90 24484.53 26598.62 28015,44 27786,75 27548,62 27344,65 27158,34 26976,53 26805,63 e E 104 66771.56 66771.56 653031.47 65300.01 62061.53 60587.93 59147.28 56147.58 57678.23 58204.62 598134.84. 59512.84. 60896.30 61940.77 62193.72 62193.14 65195.63 65195.63 65155.63 65155.63 65155.63 65155.83 71986, 31, 72787, 44, 73557, 69, 74324, 56, 75050, 25, 75731, 75, PISS TREUNING DELEGIALION NO MES 12,912. 36,936 35,935 57.598 57.108 56.200 62.442 62.243 61.024 60.175 59.629 59.629 . 0.76 35.160 34.224 33.497 31,131 30,403 22,700 28,852 58.485 58.069 23, 567 23, 127 22, 601 22, 601 21, 286 21, 272 21, 272 20, 847 20, 312 74.064 72.669 71.237 87.238 27.578 27.565 3.129 877,08d 97,578 80. 44.5 81. 198 75,551 75,551 75,561 75,471 72,587 72,587 74.619 74.679 74.949 74.933 75.181 75,117 75,110 74,277 75,027 74,973 74,973 74,838 74,838 77.72u 96.273 75.391 HITHITH //.63E 76.663 77, 189 PRAT NH DI 24.794.00
24.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00
25.794.00 26014.00
26014.00
26014.00
26044.00
26144.00
26144.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00
2644.00 71, 11 424.06 623. 1 5, 594.50 44.00 11.12 36.11 00 4555 15151

																									!		1	RO	cs	3					1						:			1			
-338,55	-424,59 -	-337.05	-227.20	-560.48	-465,61-	-458.97	-213, 12-	-361.63	439.16	-441.67	-310-20-	-327.02	-357.43	-231,02	408.51	-312,34	-281.03-	- 386. 41	-336+80-	-185.99	-324.62	-286.50	- FT • FCT - :	-3//.60	344+44	-34,30	-238,78	-229.83	-417.38	-153.82	-139.18	-308. 67	-66.68	-304.08	-170.01	304.55	385.52	21.541-	76.761-	1434,31	.59.93	48.65	-236,62	-361.12	-298.18	-47.51	-2.12
1305.63	1328, 13	1380.88	1335,00	1294,38	1265,25	1251.50	1194.00	1205.38	1127.38	1096.50	1049.38	1046.00	1103.25	1118.00	1122-38	980.50	627.68	728.88	624.68	911.75	683-50	928,25	1031.88	671.65	64.5.00 000 40	842.38	1040.88	1070.00	995.06	945.63	974,13	740.38	594.75	416.75	449.25	548.25	630.25	25.47/	733.23	507.75	312.25	374.50	514.38	683.50	855, 13	1049.13	1055.88
24.	-, 68	69	-151	-, 74	- 89 -	-, 63	-, 43	- , 53	65	ا. ئى	44.	45	- 47	-, 38	33.	40	- 32	-, 39	a. 38	-, 29	32	35°°		41	9 7	44	-, 31	. 15	41	24	- 23	05	=-12	24	17	26	= 32	17.	17:-	2.24	69		-, 20	30	-, 28	15	12
90*-	-, 03	-, 02		-,01	۲0,	90	19	.01	40¢	. 28	.07	, 16	10.	40.	404	B0 •~	c0	,21	• 20	.24	87	ກ. ຄວ	77	30 -	- 07	-,07	-,05	BU-	-,21		44.	27		40		-, 25		C 1 .	20.	5.00	. 040	90	. 22	10.	.03	\$0°-	, 11
30.00	30,00	30.00	30.00	30.00	30,00	30.00	30.00	30.00	30.00-	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	20.05	20.00		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	20.00	30.00	30.00	30.00	30.00	30.00	30.00	30.06	30.00	30.00
* 4	34	4	34	4	34	₹	44	4	34	4	34	4	34	4	- 34	4	4	4	34	4	34	∢ ;	45	4 4	- 2	34	4	34	4	34	* :	*	34	4	34	∢ ;	4	•	- T	1 4	4	*	4	. 34	4	34	4
45	34	4	46	47	47	4 B	48	4	45	3	3	13	21	22	23	53	M M	43	ų	S	3	36	9 5	ין אין			ì	1		0	~ -	1~	7	Ð	M	4	•	n y	ر د ا	0 4	-	7	Э	30	6	<u>۰</u>	<u>ي</u>
) 45 -	32	4	1	1	33	15	3	15	51	37	15	S .	ST.	7.5	4	15	15	. 	.C	3. 3.	1	 	1 :		 1		15	15	16	7	97	12	16	16	16	7.	4;	- -	91	9 4	2	1	7.6	91	16	91	7.
26319.16	26106.87	25938.34	25624.74	20544.50	25296.59	25067.11	24960.55	24/79.73	-24610.15	24387, 52	-24234-22	24076.71	23691.90	23776,39	23521.44	23415.27	23274.75	23084.55	22916-14	22823.15	22660-83	22517, 58	22941-02	22222.21	2007, C2027	21622.12	21702.73	21582, 26	21379.67	21302.16	21232.57	20922. 43	20869.00	20736.96	.20651.95	20499. 68	20306.52	20.10.30	2011102	19749.24	19719.09	19669, 36	19551.35	- 19320,79	19221.70	19192, 95	19196.89
77753.44	78417.50	74107.94	44.57.75	80422.62	81055,25	81681.00	82278.00	83.005.8	83444·37-	83997.62	84517.31	85040.31	8229.T. 94	86150.94	86712-12	47.202.37	87616.31	87980.75	68393.19	H4449.06	8.05558	89754.94	70770*B7	49.96/04	25.86112	91693.81	92514.25	93049.25	93546,75	94019.56	94506.62	95350. 69	\$564B.06	93856.44	-960BI.06	96355.19	26670.31	77052.00	77.37% 12	97987.94	98:42.56	58329.B1	98587.00	98928.75	90356.31	55EB0.82	100408.80
19, 453	211.71	18,801	18.545	18,1/3	17.8.56	17,519	17.304	17.03B	14.792	16.516	16.296	16.073	15.836	15.645	355-51	15, 195	15.022	14.827	14.639	14.496	14.310	14.136	13. YYB	13.794	510.51	13, 317	13.160	13.005	12.799	12.681	12,567	12.254	12, 192	12.070	11.958	11.858	879 T	240.11	114.985	11.1045	11.156	11.103	11.001	10.853	10.714	10.638	10.576
74. 783	14.775	74.766	74. K24	/4.H18	74.855	/4.82.	14.727	/4.750	44.755	74.915	74.950	75.032	25.036	75.058	75.038	74.978	- 74.975-	75.074	75.179	75.278	75, 392	75.418	0H6 *C7	70.480	75 706	75.352	75. 531	75.293	75, 187	75.080	75.011	74.725	74,667	74.646	74.648	74.520	75.8.47	74.5/2	74. 339	73.961	73.941	73.923	74.082	74.090	74.104	74.084	74.027
56704.00	54744.00	1,67,64,00	00 49740	1,6824,00	56654,00	56HB4.00	56714.00	1,6944.00	549.74.00	\$7004.00	5/034.00	1,7064.00	57084.00	5/124.00	57.154.00	57,84,00	27774.00	5/244.00	57274.00	17304.00	57334.00	1.7364.00	חת אבירים	27424.00	5.7444 VO	57514.00	57544.00	57574.00	57604.60	57634.00	57664.00	57724.60	57754.00	5/784.00	57814.00	E/844.00	2737.4 4767	00.404.00	00.45.75	57464.00	58024.00	SBOSALDO	5H084.00	58114.00	5.8144.00	58174.00	5.8.204.00

R. TEMPLESCHING COMPSENSOR * * *

ग्राधाः		:	1015Z 18 JAN 1984	
SAMINGHING THE STREET		E Fuse 100		
THE PRIMITE	000000 NMC 15-10	BOT BUT TONE BUTTONE TONE TONE TONE	CHAIR LANAULESTI MEN FLUG TO	1212Z 18 JAN 1984
MIN.N.		de did.	7, 194.7	

1		!			!		i		:	пфс	S	3												1 .		
	•	1		:									:	1			1				:			ļ		
			: 						1												i					;
;																	i									
			: 														•									
	1	!				:	ı		, i				İ					; I								
			1						:															٠		
1			:			*							:								1					
																					-					
													:				-									
MLES L DIFEENENCE	4.4	ခေတ် (1-4)	0.4									21		 -4	, .	1.3		ं ् च	 	1 :-	1,5	. 4 	3.9	4.5	20 33 24 C	7
TEPPERATUSE DEFREES UNITALITY BANKES UNITALITY	-72.63 -74,38	7.2.43	d										اد.	11 - Q1 ,	a -/- - v 1 	55°4°		55.55	20 / C.	\$3.75 \$3.75		VE - 421	-50,86	20.11	14.4.45 0.1.14	1717
iter Kucke I	75.59	71.47	. 58.86 . 6.15.		o .	٠	r.		. •				4 - 4 1 - 1 1 - 1		* *** * *** ***	6.2.4			্ ক নি ক নি ক নি ক	-51.37	_ 52,422 -	47,49	-45.57	46.68	-45.78	Y / * 0 %
डपुत्रा उम् भारा । । १५	00561 00561	28781 20000	20.500 30.500		2011	\$517 \$74.4	ă ă							ا ا ا) 	. 000	42.40	3 °	00777	27500	27.728	OOCE T	.45500	007700	00067	Zi iz

1)	11	;
4, 14 245, 20 999 4, 14 245, 20 999 4, 69 791, 52 003 4, 69 791, 52 003 5, 14 22, 264 006 5, 19 29, 39 003 5, 32 286, 80 003 5, 32 286, 80 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 49 20, 10 003 5, 40 20, 10 003	7, 24 285, 20 997 4, 64 268, 25 003 4, 69 268, 26 003 5, 61 292, 64 006 5, 61 292, 64 006 5, 70 295, 60 003 5, 72 298, 90 6, 102 5, 72 298, 90 6, 103 5, 72 298, 90 6, 103 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 31 7, 65 30, 30 7, 65 30, 30 7, 65 30 7,	CORR MESS I
5.46.9 791.52 005 5.40.25.06 006 5.90 295.06 006 5.90 295.06 0005 5.32 295.39 003 5.32 295.39 003 5.32 295.39 003 5.32 296.39 003 5.42 298.84 001 7.66 297.02 001 12.41 302.32 003 12.42 303.31 000 12.44 302.32 000 12.45 302.31 000 12.46 303.11 000 12.47 302.32 000 12.48 302.32 000 12.48 302.32 003 12.49 302.32 003 12.49 302.32 003 12.40 302.32 003	5,46,974,52,005 5,40,275,64,006 5,40,275,64,006 5,40,275,64,003 5,32,275,39,003 5,42,275,89,003 5,49,30,31,003 5,49,30,31,003 7,66,797,02,001 12,41,30,41,41,41,41,41,41,41,41,41,41,41,41,41,	44. 44. 944. 44. 544
5.79 295.66 5003 5.32 297.39 6003 5.32 297.39 6003 8.32 36.66 6003 8.49 301.74 6001 9.86 300.31 6001 12.41 302.92 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.42 304.90 6001 12.43 304.90 6001 12.43 304.90 6002 12.64 326.81 6002 12.65 326.81 6002	5.70 293.06 0003 5.32 297.39 0003 5.32 297.39 0003 8.32 297.39 0003 8.32 296.84 0003 8.49 301.74 0003 9.46 293.05 0003 12.42 300.31 0004 14.69 313.11 0004 14.69 313.11 0004 14.69 313.11 0004 14.69 313.11 0004 15.42 304.90 0001 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.43 304.90 0004 15.44 320.80 0004 15.45 328.80 0004 15.45 328.80 0004 15.45 328.80 0004 15.45 328.80 0004 15.45 328.80 0004 15.45 328.80 0004 15.45 328.81 0004 15.46 327.81 0004 15.46 327.81 0004 15.46 327.81 0004	39,8551
5. 3.2 297. 39 . 003 5. 5.2 298. 84 . 003 8. 5.9 298. 84 . 003 8. 5.9 30. 31 . 001 9. 85 30. 31 . 001 7. 66 299. 02 . 001 14. 84 30. 31 . 001 14. 9 313. 11 . 008 14. 10 312. 12 . 004 14. 10 312. 12 . 004 15. 20. 88 322. 61 . 007 22. 58 322. 61 . 007 22. 58 322. 61 . 007 22. 58 322. 61 . 007 23. 68 322. 61 . 007 24. 68 322. 61 . 007 25. 59 328. 60 25. 59 328. 60 26. 59 328. 60 27. 68 322. 61 . 002 28. 50 328. 66 . 005 38. 50 330. 50 . 003 42. 48 320. 11 . 002 57. 90 328. 66 . 005 45. 57. 90 328. 66 . 005 46. 48 322. 13 . 008 66. 46 327. 87 . 004 66. 46 327. 87 . 004 66. 46 327. 87 . 004 66. 46 327. 87 . 004 66. 46 327. 87 . 004 66. 46 327. 87 . 004 66. 46 327. 87 . 004 66. 46 327. 87 . 004	5, 37, 297, 39 (003) 5, 37, 297, 39 (003) 5, 92, 298, 84 (003) 8, 93, 00, 59 (003) 8, 83, 30, 31 (001) 9, 86, 303, 31 (001) 12,41, 304, 90 (001) 12,41, 304, 90 (001) 12,42, 304, 90 (001) 14, 84, 308, 42 (004) 14, 10, 115, 10, 100 18, 92, 120, 100 18, 92, 120, 100 18, 92, 120, 100 18, 92, 120, 100 18, 92, 120, 100 18, 92, 120, 100 18, 120, 120, 100 18, 120, 120, 100 18, 120, 120, 100 18, 120, 120, 100 18, 120, 120, 120 18, 120 18, 120	29.0207
8. 5. 72 3.00. 3.94.88 4 + 0.0.1 8. 47 3.00. 5.9 + 0.0.2 5. 49 3.01. 74 + 0.0.2 5. 49 3.01. 74 + 0.0.2 7. 66 299.02 + 0.0.7 7. 66 299.02 + 0.0.7 12. 41 3.02. 9. 0.0.1 14. 49 3.13. 11 + 0.08 14. 49 3.13. 11 + 0.08 14. 49 3.13. 11 + 0.08 14. 69 3.13. 11 + 0.09 20. 68 3.22. 61 + 0.07 21. 08 3.22. 61 + 0.07 22. 64 3.22. 61 + 0.09 23. 66 2.00 24. 10 3.10 25. 79 3.20 26. 66 20 27. 66 3.31. 55 + 0.02 28. 79 3.28. 66 + 0.05 28. 79 3.28. 66 + 0.05 28. 79 3.28. 66 + 0.05 28. 79 3.28. 66 + 0.05 28. 79 3.28. 66 + 0.05 28. 79 3.28. 66 + 0.05 28. 79 3.28. 87 + 0.00 28. 79 3.28. 87 + 0.00 28. 79 3.28. 87 + 0.00 28. 79 3.28. 88 + 0.00 28. 89 3.29. 50 + 0.00 28. 89 3.29. 50 + 0.00 28. 89 3.29. 50 + 0.00 28. 89 3.29. 50 + 0.00 28. 89 3.29. 13 + 0.08 28. 28 3.20. 13 + 0.08 29. 29 3.20. 13 + 0.08 29. 20. 30. 30. 30. 30. 30. 30. 30. 30. 30. 3	8. 57 2 298 8 + 003 4	24.8342
5. 49 301.74 .003 9. 77 303.31 .001 9. 84 300.31 .002 7. 66 299.02 .003 12. 41 302.92 .003 14. 69 33.11 .008 14. 10 315.76 .004 14. 10 315.76 .004 20. 78 320.67 .006 20. 68 322.61 .007 21. 68 322.61 .007 22. 54 326.98 .010 22. 52 326.01 .015 22. 52 326.01 .015 23. 58 326.88 .002 34. 10 330.99 .002 34. 10 330.99 .002 35. 56 326.88 .002 36. 56 331.55 .002 36. 56 333 .003 47. 69 329.86 .002 57. 90 328.88 .004 48. 52 330.31 .002 48. 52 330.31 .001 47. 52 326.004 68. 68 322.13 .008 68. 68 322.13 .008	5.49 301.74 .003 9.87 303.31 .001 9.88 300.31 .002 12.40 130.27 .005 12.42 308.42 .004 14.89 313.11 .008 14.10 315.76 .001 20.68 332.67 .006 19.73 .320.67 .006 19.73 .320.67 .006 20.68 332.61 .007 21.06 325.81 .004 22.54 326.11 .005 23.66 125.81 .006 23.66 125.81 .006 23.66 125.81 .006 24.70 328.82 .003 47.32 330.33 .001 47.32 330.33 .001 47.32 328.82 .002 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 47.32 328.82 .003 48.68 320.92 .004 68.68 322.13 .008	57 15.6962 24
9.86 300.31 .007 7.66 293.02 .001 12.41 302.87 .005 12.42 336.42 .004 14.69 313.11 .004 14.69 313.11 .004 14.69 313.11 .004 18.72 122.07 .006 18.72 122.07 .004 20.78 320.67 .005 20.78 320.67 .007 20.78 320.67 .007 22.54 326.91 .004 22.54 326.91 .004 22.59 326.01 .004 23.06 326.91 .004 23.06 326.91 .002 24.10 330.79 .002 34.10 330.73 .001 44.69 320.36 .002 47.32 330.33 .001 48.64 330.33 .001 48.64 327.97 .007 68.68 322.56 .008 68.68 322.50 .008 68.68 322.50 .008 68.68 322.50 .008 68.68 322.50 .008	7.66 300.31 .007 7.66 300.31 .007 12.41 302.92 .001 14.84 308.42 .004 14.10 315.76 .001 14.10 315.76 .006 12.7 32.07 .006 12.7 32.07 .006 22.54 325.81 .004 22.54 326.81 .007 23.68 322.61 .007 24.08 322.61 .007 25.79 326.01 .005 34.10 336.83 .002 34.10 336.83 .002 34.10 336.83 .002 35.86 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.43 325.66 .002 57.80 328.89 .004 68.48 322.13 .008	5313.5159 20.
12.42 304.90 001 12.42 304.90 001 14.68 330.42 005 14.10 315.70 004 14.68 322.67 006 19.72 322.67 006 20.68 322.61 007 21.06 325.81 004 22.54 325.11 004 22.55 326.98 010 22.55 326.98 010 23.68 000 23.68 000 24.00 336.98 000 34.10 33.79 000 34.10 33.79 000 34.10 33.79 000 34.10 002 35.56 330.11 002 55.50 328.89 004 66.42 332.13 008 69.24 322.13 008	12.47 30.72 00.01 12.47 30.490 00.01 14.89 313.11 0.008 14.49 313.11 0.008 14.49 313.11 0.008 12.42 322.01 0.004 12.52 322.01 0.004 12.53 322.61 0.007 12.63 322.61 0.007 12.64 322.61 0.007 12.64 322.81 0.009 12.65 313.55 0.003 13.69 313.55 0.003 14.32 313.53 0.003 14.32 313.53 0.003 14.32 313.53 0.004 14.32 313.53 0.004 14.32 323.13 0.008 15.44 322.13 0.008	10.0374
12.4% 304.90 .001 14.84 318.42 .004 14.68 313.11 .008 14.10 315.76 .001 20.78 320.67 .006 20.68 322.61 .007 22.54 326.98 .016 22.54 326.98 .016 25.79 326.01 .004 21.04 326.10 .004 21.05 326.10 .004 22.54 326.98 .001 34.10 330.79 .002 36.56 331.55 .002 34.10 330.79 .002 36.56 331.55 .002 36.56 331.55 .002 36.56 331.50 .002 36.56 331.50 .002 37.80 328.80 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 48.48 322.50 .008 68.68 322.50 .008	12.42 304.90 .001 14.48 4 304.90 .004 14.69 313.11 .008 14.10 315.76 .001 20.68 322.61 .005 20.68 322.61 .005 22.54 325.91 .006 22.55 326.01 .005 23.68 325.98 .000 24.55 332.98 .000 34.10 333.79 .002 36.56 328.86 .002 36.56 328.86 .002 36.56 328.86 .002 36.56 328.86 .002 36.56 328.86 .002 36.56 328.86 .002 47.43 330.11 .002 57.40 322.13 .004 68.46 322.13 .008	7.4280
14.69 313.11 .008 14.10 315.76 .001 20.78 320.67 .006 20.68 322.61 .004 20.68 322.61 .004 22.54 326.99 .010 23.06 326.94 .009 28.79 326.91 .004 31.89 329.86 .002 34.55 331.55 .002 35.86 .005 37.86 329.35 .003 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 320.33 .004 60.46 327.86 .006 60.46 327.87 .007 64.42 325.36 .008 68.68 322.50 .008 68.68 322.50 .008	14.69 313.11 .008 14.10 315.76 .001 20.78 320.67 .006 20.68 322.61 .007 22.54 326.98 .016 22.55 326.98 .016 22.54 326.98 .016 31.89 328.88 .006 34.10 330.79 .002 34.10 330.79 .002 34.26 328.35 .002 34.26 328.35 .002 47.32 380.33 .001 47.32 380.31 .002 55.41 329.66 .002 55.41 329.66 .002 54.41 329.66 .002 54.42 330.11 .002 54.42 322.13 .008	75 6.4130 9
20.78 320.67 .006 20.68 322.67 .006 20.68 322.61 .007 23.06 325.51 .004 22.54 326.98 .010 25.59 326.01 .015 27.06 326.84 .009 34.10 330.79 .002 36.56 331.55 .002 36.56 331.55 .002 47.32 330.33 .001 47.32 330.33 .001 47.32 320.87 .000 68.68 322.50 .008 68.68 322.50 .008	20, 78 320, 606 19, 92 122, 07 006 19, 92 122, 07 006 20, 68 322, 61 007 21, 06 325, 81 004 22, 54 326, 88 006 31, 89 328, 84 009 34, 10 330, 79 002 34, 10 330, 79 002 34, 10 330, 79 002 34, 10 330, 79 002 34, 10 330, 10 002 45, 55 329, 65 002 47, 32 330, 33 001 47, 32 330, 33 001 47, 32 330, 33 001 47, 32 330, 33 001 47, 48 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007 60, 46 327, 87 007	4.8231
20.68 322.61 .007 21.06 325.51 .004 22.54 326.98 .010 25.59 326.01 .015 27.06 326.84 .009 28.29 328.16 .001 34.10 330.79 .002 35.56 331.55 .002 37.86 329.35 .003 42.69 328.66 .005 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 68.68 332.87 .007 64.42 322.13 .008	20.68 322.61 .007 21.06 322.61 .007 22.54 326.98 .010 25.59 326.01 .015 27.06 326.84 .009 31.89 328.86 .001 34.10 330.79 .002 36.56 331.55 .002 36.56 331.55 .003 42.69 328.86 .003 42.69 328.82 .001 47.32 330.33 .001 47.32 330.11 .002 57.90 328.89 .004 66.46 322.87 .007 64.4 322.87 .007 64.4 322.50 .008 68.68 322.50 .008 68.68 322.50 .008	3.6791 5.
22.54 322.13 .004 22.54 326.98 .010 25.59 326.98 .010 25.59 326.98 .006 31.89 326.84 .009 34.10 330.79 .002 36.56 331.55 .002 36.56 331.55 .002 36.56 331.55 .002 42.69 328.66 .002 47.32 330.33 .001 47.32 330.33 .001 47.42 325.11 .002 55.41 327.87 .004 66.68 322.85 .008 68.68 322.50 .008	22.54 326.98 .004 22.54 326.98 .000 23.59 326.84 .009 28.79 328.84 .009 31.89 328.88 .001 34.10 330.79 .002 36.56 331.55 .002 37.86 328.66 .005 47.69 328.66 .005 47.53 330.33 .001 47.54 330.11 .002 57.90 328.89 .004 60.46 327.87 .007 64.43 322.83 .008 68.68 322.50 .008 68.69 322.13 .008	2,8329 3.
27.06 326.84 .009 28.79 328.36 .000 31.89 328.88 .001 34.10 330.79 .002 36.56 331.55 .002 37.86 .002 37.86 .002 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 47.32 330.33 .001 68.64 330.11 .002 57.90 328.88 .004 60.46 327.87 .007 64.42 322.13 .008 68.68 322.50 .008	27.05 326.84 .009 28.70 328.34 .009 31.89 328.36 .001 34.10 330.79 .002 36.56 331.55 .002 36.56 331.55 .002 36.56 331.55 .002 42.69 328.46 .003 47.32 330.11 .002 57.90 328.89 .004 60.46 332.40 .002 60.46 322.50 .008 64.42 322.50 .008 68.68 322.50 .008	2,1927
31.89 328.46 34.10 330.79 36.56 331.55 37.86 328.35 47.69 328.66 45.53 330.33 47.32 330.33 47.41 329.66 57.40 328.87 60.46 320.87 60.46 320.87 68.68 322.50	28.78 328.88 33.89 328.88 32.86 328.35 42.69 328.66 42.69 328.66 42.69 328.66 55.41 329.66 57.90 328.88 66.46 320.11 54.42 322.80 66.46 322.50 68.68 322.50 68.68 322.50	1.7010
34.56 331.55 37.86 331.55 42.69 328.66 42.69 328.66 47.32 330.33 47.32 330.33 47.32 330.33 60.46 322.82 60.46 322.87 68.68 322.50 68.68 322.50	34.56 331.73 36.56 331.85 37.86 328.35 42.69 328.66 45.25 330.33 49.46 330.11 54.41 329.66 57.20 328.89 60.46 327.87 66.46 327.87 66.46 327.87 68.69 327.87	1.3233
37.86 329.35 45.69 329.86 45.25 329.86 47.32 330.33 49.64 330.11 54.41 329.66 57.90 328.87 60.46 327.86 68.68 322.50 68.68 322.50	45.69 329.35 45.69 329.86 45.75 329.86 47.32 330.33 49.64 330.11 57.40 329.66 50.46 327.87 68.68 322.50 69.24 322.13	1.0332
45.25 329.82 47.32 330.33 49.64 330.11 54.41 329.66 57.90 328.89 60.46 327.87 68.68 322.50 69.24 322.13	45.25 329.82 47.32 330.33 49.44 330.11 54.41 329.66 57.90 328.89 60.46 327.87 64.42 327.87 68.88 322.50 68.24 322.13	. 9131 . H060
42.64 330.11 54.41 329.66 57.90 328.89 60.46 327.87 64.42 325.36 68.68 322.50 69.24 322.13	49.64 330.11 54.41 329.66 57.90 328.89 60.46 327.87 64.42 325.36 68.68 322.50	2, 24 , 2004 0
54,41 329,66 57,20 328,89 60,46 327,87 64,42 325,34 68,68 322,50 69,24 322,13	54.41 329.66 57.90 328.89 60.46 327.87 64.42 325.36 68.68 322.50 69.24 322.13	
57.90 328.89 60.46 327.87 64.42 325.36 68.68 322.50 69.24 322.13	57.20 328.88 60.46 327.87 64.68 322.55 68.68 322.50	. 4909
68. 68 325. 13 68. 68 322. 50 	64.42 325.36 68.68 322.50 69.24 322.13	4335
69, 24 322, 13	69.24 322.13 •	-3.41 .3369 .4
- 52.24 - 322.13	• 57,44 - 54,413 •	.2966
		-3.97 2917

013 013 013 013 013 013 013 013 013 013 000 000 000 000 000 000 000 003 200 SHR /SEC 285.20 285.62 285.62 288.42 288.25 289.08 28.65 US MFS 5.27 5.27 5.96 5.98 7.38 2,82 8,59 2,50 5,32 6,80 7.59 8.52 5.92 9,28 7,66 0,18 3,68 5.67 3.88 5.14 2.76 5.61 . 64 4.69 6,00 5.64 를 됐 금 5 24,3400 23,3324 22,4331 20,5823 20,8628 19,2657 19,2657 17,1325 16,9228 16,9228 15,944 15,65943 79.0216 75.4187 71.9885 68.4129 65.7097 63.1002 60,4611 57,9083 55,5876 53,1739 947,9979 6.7066 DENSITY 48, 7912 G/M3 . 5690 44.5806 53.9738 31,3901 26.8442 18,5807 3516 32,6534 50. JEUZ 5103 16.749 1.020. 23.691 **SEN**E CONK 215.55 715.46 217.10 217.25 2117.93 218.80 219.41 219.90 219.90 221.15 222.06 209.02 211.35 211.40 211.94 13.84 222,54 272,54 272,31 223,54 LAIL LENAUERAL ALS. FLUKINA 15 52 - 18 JAN 1984 11.25 ā 7. 3 £ S 2 3 -260 264 263 258 253 Strek tini GEOMM 21500 23750 24500 25250 25500 26250 26500 39750 29750 29750 30000 30250 31250 32000 32000 32250 32250 32500 20000 0001. 000 000000 3.50 1550 21:20 0000 94:39 0720 20750 305. 05777 333 B-85

292,84

227,27 276,23 228,91

ROCS

																							RO	cs	3																	Type desired to the second sec					
4	· •	i i		14		20 (•	45	2 G	រៈស្	30	9 1	2		3	2		2				99	6(7	7	2.5	2	29	Ø 6	2	07	13	- T		200		22	2.00 0.00 0.00	2	7	25	E(3.3	3.3	
•	•	700	• •	400.	•	•	200	•	•	400	• •	• •	t	900.	•	i	. 006	•	BOOT	• 1	•	1.	• †	•	•	1	i	•	.012	1	800.	•	7007	•	•	100	• •	•	002	• •	•	•	.002	• •	•	200.	}
303, 88	304.25	304.40	306.69	307.56	308.42	309.37	310.36	3	4:	715.30	3 15	16.	Ž.	319.24	321.28	321.82	322, 12	322.04	322.11	322.61	323, 15	324.64	325.51	326.18	327.12	326.98 326.98	326.35	326.18	325.90	326.23	326.52 326.84	327.27	327.72	328, 36 328, 36	328, 36	328.37	328.8E	329.37	329,82	3.40° 50° 5	331.22	331.66	332,09	330.94	330.33	329. 73	
	بر در	7 7	2 C		₽		, ,	9	5	. 43.5 . 43.5		26	9	69.81	1		19.62	1	20-11	20. 6B	32	9	1		1	3 -	1	24.02		- !	26.85	i	27,77	- 1		1	31,89		32,85	4.10	63		333	6.75	6.94	37, 13	000
-		-		٠ -	~	-	-	1	–				-	_,,		-			08322	ļ		-			ļ				4682 2		3075 2		İ	- {		1	7142 3							:	2473 3		
10.4697	•	00000 A		٠.	8.1776	7.8442	7.00	4	•	6.3466	• •		•	5, 2292	4.83	4.6599	4.5031	4.22	4	3,81	3.67	٠.		3,17		2,8739	2.70	2.62	2.46	2,38	2, 30		4	• •	1.88	1.83	1.71	1.65	09	1.04	1.44	1.39	1.3538	1.28	1.24	1.21	71.1
6.9001	6.6517	6.4130	5.0664	5, 7536	**	5, 3580	5.1/1¥	8.23	4.6603	4.5031	4.3524	4.0669	3.9322	3,8035	3.5604	3.4455	3,3347	3, 1239	3.0236	2,8329	2.7424	2.5712	2.4900	2.4118	2,2635	2.19.2	2, 0583	1.5938	1.8710	1.8125	1.7559	1.6462	1,5921	1.4997	1.4535	1.4086	1,3233	1,2827	1.2433	1.1687	1.1333	1.0989	1.0656	1.0018	. 9714	9419	1011.
7/.	٠ ا	? ?	08	5/	83	. 85	98 .	74	- 86	. 86 90	287	- 86	8.5	. 95 0.0	\$6	- 5H *-	-,87	88	- 88	100	-1.00	-1.04	-1.02	-1.05	96	20 1	- 253	-1.02	-1.14	-117-	-1.21	-1.24	1.23	-1,25	-1.29	-1.33	-1,41	-1.44	-1,48-	10.41	-1.48	-1.46	-1.45	-1.46	-1.47	-1,48	₹ 7 1 1
09.	230.16	261.15	232,33	61	38.	96.	9.4	3.5	.48	84 S	0 0	44.	11.1	253.40	65	257,59	257,98	, 86	257.9B.	258.07 258.77	259.64	262.04	263.45	264.53	266.06	265.83	264.80	264.53	264.08	264,59	265.09	266.30	262,63.	268.92	268.09	268.10	268, 92	269.74		272.06	272, 78	3,49	274.21	272.31		270.32	
2,23				i			46 - 239.	ı		•	747 14	1	ŀ	38 253.	1	i	31 257,		1		26 259		24 26	-			19 26.		18 26	-		i				1	24 26		!	72 77		i		25 27			
٠ :			8 3		i					i			İ									ļ										i							i	•	1	1		!	:		
i			2.59	240	243		248	200	254					255	1	-	253		252	263			ŧ				222	•••	191	Í			-	163	1	7-	185 185	i	1	187	, 	٠,	٦,		129		
73500	33750	3377	34250	6474	200	35250	75.500	357.50	36250	36500	36/30	3/250	11/2/10	37750	38250	JUL:HE	38750	39250	797.65	40000	40250	40750	41000	41250	41750	42000	42250	42750	43250	435.00	43750	44250	44500	45000	45250	45500	46000	46250	46500	00/04	47250	47500	47/50	46250	48500	48750	4700
		1		1	!		1																	B-8	 																						!

						1							1								:		1			RO	cs	B													
					1			•			;		1								:										:	,	i			!			:		
					:			:		1						:										;						,			1			:	1	1	
					: 1						:			•																			1	:	:	} :					
					:																		+																		
	.005	500.	300.	300.	. 002	100		100.	303.	700	. 002	. 002	.002	2007	. 002	002-	2000	700*	200	. 007	.002	200.	700	700.	800.	- 4008	800.	800	800.	807	• 008			!					:		
•	329, 18	329.00	328.83	328.66	328,85	309.83	329		330.	7.50.57	330.28	330.24	330.20	330, 11	329.89	329,78	329.66	22.4.5.	329,14	328,89	328.63	328	•	327.48	326.77	326.02	325,36	4	323.93					:			ļ.	!		i	
	39.02	40.3	41.		4.5	r 🔻	4	450	46.	47. 23	47.78	48.	48.	47.64		53	ָ קרוני	¦ 1	52.	57.	. 5B.		. 27.	60.46		63.	.	78 - CQ	66.55	68.	69.				1			:		:	
	1,1445	1.1105	1.0775	•	- 1.0123	4746.	9160	. 6847	.8585	86.75	7831	.7595	.7366	541/.	. 6725	. 6524	6259	0.00	5784	5615	.5451	.5292	76164 -	4987	. 4712	4584	. 4460	4452	4721	.3995	1939							-	1		
	. 6851	. 85/3	.8316	. 8060	7813	7343	811/	0069.	6899	66.64	7609	. 5911	. 5731	7555.	,5223	.5063	4904	447.37	4472	. 4335	• 420t	. 4072		3876	3591	.4347B.	.3369	43264	.3062	.2966	7782			!				:			
	-1.65		. I. 58	1,99	-2.05	5	-2.15	-2.19	2.0 7.0	40.00	-2.25	-2,27	87.0	-2,55	-2.48	-2.56	2,63	-0.77	2,90	-2,84	: 2,87	-2.90	42.5	-3.03	-3.16	-3.28	.3.41		-3,66	-3.91	-34.97	ļ		!	1			1		1	
	269.41				268.69					72.175			-	270.75		1	270.23						;	267.28	265,50	1		202,02	259, 75	258.60	258.01		61226	1	į			1	,		
	\$ i				57.										35			,) e		7. 16		⊣ •	14	5 14	7	;	runë							•	
	0. 171	_	_			191		,		İ.	163			791 0		,			i	0 177				191			942		0 27.7 3 232			- 1	A ALTITUNE	1	:						
	48250	00048	48750	00004	05204	02702	00011	05215	51500	9990	52250	99964	05725	2000	00050	5.4750	20040		מבלצב	55000	25250	00253	מכיפר	0.6000 0.6000	56500	26250	57000	מכיים	005/3 04ZZ4	000B's	28128		HAX I HUH						· •		
	(1	ı		:		-					į			İ		i			I		,	ļ	 B-	3.7	,	!	j			;						1	!		

· · ·

ROCS SHR /SEC 574.18 574.13 575.07 575.07 57.44 577.48 577.68 577.68 577.68 577.68 577.68 577.68 8 A 8 F 8 582, 588, RF 14.1325 13.5125 12.8059 12.1120 11.4873 10.2416-DENBITY G/M3 32, 4768
30, 8659
28, 1464
28, 1364
26, 8927
27, 1654
20, 9369
19, 9994
11, 1052 43.8364 33.0963 31.5406 30.0649 28.6637 27.3334 26.0661 24.8587 23.6240 22.6240 PKESS Tes # # K F 111 K 242 245 245 245 236 238 238 238 239 240 243 253 253 1515Z 18 INN EST NUMBER STIFFER LUNI GEORF C 7.2000 93000 113000 115000 115000 116000 83000 83000 84000 85000 86000 82000 88000 94000 95000 96000 92000 98000 98000 000020 000A01 00065 00065 00065 3000 74000 22000 22000 73000 73000 73000 73000 200018 104000 30001 9,0018 33333 00010 11000

				The second secon																							X	:s	3			The state of the s										the second section of the second section is a second section of the second section section is a second section												
:00°	:00·	400.	300.	750	.89.	300.	.00.	455	900.	800	200	.005	500.	.003	800	¥00.	210.	4.0	.012	7.77	800.	ROO.		200	7007	100.	1001	200	- 200	200	.002	7007	700	.003	5001	400.	000	000	. 002	1001	100.	1700	200	.002	2001	. 002	7007	. 002	.002	700	.003	36	200	}
89.21g	~;	4.	₹.	:		624.82	625.75	٠.	625.63	62.40	627.67	629.20	631.22	633.25	7	6.35.48	6.44.24 4.24.24	~، ≀	653.33	633-16.	633.90	639.64	634,43	637.67	632.86	637, 68	437.90	638.76	641.31	642, 38	643.41	644.43	643.33	641.87	640.43	639.68	037150	638.47	638.93	639.74	640.54	241124 441.55	641.75	641.64	641.54	641.44	641.23	640.70	640.44	640.12	639,75	639,15	530° 50° 5	
•	49.55	٠	54.20	:	ς:		_	i t		×0.04	: 5	72.28	4	76.42	25.19	· ·	74. (4)	77,51	82,58	4	87.65	HR - 4H	67.03	92.55	95, 72	99.22	102.72	104.79	108.62	111.29	114.27	112.24	120,34	121.11	121.87	125,36	130117	139.86	142.93	145,31	147.69	152.27	154.12	155.97	15Z.BZ	·c٠	163, 91	172.96		. 57	186.26	198,82	193.93	;
5.2774	2.01~7	5. 7.588	5,46.38	5. 1873	4.9359	•	4.5267			7.85.80		3,5285		3,2214	वः	2.9607	2. 75.1.1	2,6511	2,55,55	22.45.22			2.11.2		1,9222	1.8500	1, 2805	1.4784	1.5719	SOHZ		3867		1.2523	1,2115	1,1692	7777	1.0471	1.0067	9668	. 9286	85.74	8259	.7956	17664	. 7383	4854	7099.	. 6368	.6137	. 5916	550.	5308	i ; ;
4.4566	4.2/55	•	3,9372	3. /du2	3.6311	3. 4B84	3.3523	3.22.5	3,0458	0.84.0	2,7480	2.6419	2.5406	2.4432	2.3505	2.2613	05/10/	2,0137	1.9371	1. H635 _	1.7927	1,450%	1.50.73	1.5368	1,4721	1.4236	1,3763	1.3172	1.2227	1,1775	1.1341	1.0923	1.0321	. 9758	, 939B	. 9048	93.87	. 8073	.7773	17484	,7205	6877	. 6433	.6195	2966	. 5745	2000 - 10	.5130	. 4940	5225	. 4580	42464	4086	! !
. B.	.81	4 8.	92	96.	/6.	91	87	/8:	39.	70	30	-1.04	1.06	-1.07	1.40	96.	0 S	30.1		44	-1.19	11.23			: :	-1.32	-1.36	1.41	1.50	35.1	-1.48	-1.46	- 1.45	-1.47	-1,48	-1.57	1. 65.	-1.99	-2.06	01.2-	-2.14 -2.54	0.00	22.2	-2.25	-2,26	-2,28	-2.44	2,53	-2.62	-2.71	-2.78	2,87	2,90	; ;
247.33	247.72	249.04	251.04	253.81	256.08	257.23	257.59	257.90	257.89	258.53 258.53	3	260.85	262.57	264.32	्या गुज्	265.08	261.70	264.62	264.29	21.64.15	254,76	HF - 777	260.13	267.92	268.0H	268.09	268.11.	220.00	270.98	2/1, B3	272.76	273, 63	272.68	271.46	270.24	269.61	771.07 74H. 07	268.59	268.98	767.66	2/0.34	271.44	271,36	271.27	27448	271.10	270.76	270.47	270.25	220,03	269.67	267.17 268.66	-	· · · · · · · · · · · · · · · · · · ·
			7,6							•	4 - 5 - 5	5 6			Ţ	()	7 7) 31	31		ž;			i		57	75	o ii	1 40	ដ		3			ı	4 7	į	3		a;	ī í	i			- 1		1	S C	1		-	- 44		!
10 10 10 10 10 10 10 10 10 10 10 10 10 1	25.4	20.5	225	2	3	11 : 11 :	5 20 21	0 1		4 5	207	273	77.	272	1	7.62 2.62 2.63 2.63 2.63 2.63 2.63 2.63 2	7 G 7 C	777	00:	150	187	4 7 0 27 0	, H.	183	184	184	181	C81	183	181	184	687	163	179	7/7	173	2 2	163	162	191	091	709	161	163	491	166	/ōf	169	169	מלג	172	173	183	
 ממממון ד	000101	ODOTE	12.5000	ין המתונה	125000	7,6000	1.7000	120000	1.9000	1 51000	000101	1 3 5000	234000	13:,000	110000	1 \$7000	00000	000041	141000	7377.87	143000	144000	145000	147000	יים חחשבי	149000	コロロロコ	000101	153000	000641	155000	303911	20087	159000	000091	161000	163000	164000	165000	303997	000/91	000691	170000	171000	300771	1/3000	175000	7,6000	177000	1/8000	0006/1	181000	000280	
1		,											,									:				- 8	ı.		į			!		1			i					i .	1				1			,				

B-89

	Rocs 3
800 800 800 800 800 800 800 800	
632,34 635,74 633,72 632,04 632,04 628,67 625,97	
196.49 199.05 202.05 202.08 207.08 215.58 215.58 224.11	
. 5120 . 4938 . 4931 . 4651 . 4314 . 4034	
. 3933 . 3786 . 3643 . 35643 . 3118 . 3118 . 3118 . 2937	
2,44 3,10 3,10 3,10 4,10 4,10 4,10 4,10 4,10 4,10 4,10 4	
267.64 266.01 266.01 264.61 261.81 260.41 259.01	596102
कुर्ध हुन हुन हुन हुन	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ACTITUDE.
181000 184000 184000 187000 188000 190000 190010	אַעאַזוּאָחָ אָ
	B-90

LAFE CANAVERAL AFS, FLORIDA (517) 18 JAN 1984 SUBER TIME DATASONDE FUN-100 (F) HIDSER GOODO

285 290 295 MSG	•	· • • •	•	•							:					1											į	ı				
285 290 295	•	• •			٠		-	•	•		•	•		. !	•		•		•	• ,	, .		•		1	•		• •	•	•	• ,	
285 290	•		•				•		•		d.	•		•	•		•			• .				•	1		!			•	• .	
		• •	•	•	•	•	•	•	÷	•	•	•		•	•	•	•		4	• .	•	-	•	•	•			•	•	:	• .	
	•	• •	•	•		•	٠	•		•	•	• .	•	ļ	•	†	•	•	4	• •	•		٠.						•		• .	
280	•	- 	•	•	•	: • 1	٠			•]	•	•		•	4	-		-	• •			• •		1	•		: • • i	. .	1	• .	
275	•	• ;	•	٠	•	†			1		4	•		•	•	-	•	•		• .	•	1	٠.	•	1	•		,	•	1	• .	<u> </u>
270	•	: ب	·	 :	- `	7 :	-	٠	•	•	!	-	• 	+	•		• •	•		•	•		• •	•		•	.	ا : :	•	1	• •	
595 0	•	-	•	•	•	•	- 4	•	•	•	•	- 1-	٤	1-	• <u>-</u>	ł	•	•	1	• •	•	1	• •	•	•	•	┥・	٠ أ	•	1	٠.	
5 260	<u>.</u>	٠ ↓	•	•	•	•	•	•	•	•	1	•	•	•	•	4	· ·	•	1	• •	•		• •	٠		•	•	· •	•	-	• •	!]
2555	•	• •	•	٠	•	•	٠	•	•	•	•	•	•	1	٠	1	• 1	٠	•	• •	•	1	• •	•	1	•	1.	1	•	4	• •	
245 250	•	- 1	•	•	•	1	•	•	•	•	1	•	!	•	•	1	• •	_		•			• •	•	•	•	1	•	•		• •	
240 24	•	!		•	•	• •			V		1	•			•	1	•		1	•											• •	
238 2				•					1		!						•			Ξ.										-		
230 2	•				٠.				-	•	-								1				٠.			•		. 4	•	-	٠.	
22.5		• •		•					•	•	•	•	!	•	•		•		•	•	-	1	<u>.</u>	-	I.		┥.	. 4	•		٠.	
977		• •								•	1				•	•	• •		1	. • ·	 	4	٠.	i •	1	- • ,	١.	. 4	•	1	٠.	
97 74	•	• •		•		•	•		1		1	•		•	•	-	٠.		1	• .	•					•	-	។	•		٠.	
945	•	• •	•	•	•	•		-	-	•	1		١.		· •		• •	-	+	• .	•		• •		-	•	.	اد ا		1	٠.	
39.	•	- +		•	-		•	٠		•	· ·	•	 	· • • · · · · · · · · · · · · · · · · ·	•		• .		-	• •	•		• •	•	-	•	-		•		- -	
	213000	5.7566	000%	24000	3000	ממחקיב	50000	47000	48000	900/4	40000	45000	3000 4	42000	4:000	40000	39006	37000	36000	35000	3,3000	32000	30000	00074	28000	27000	00000	23000	23000	72000	20000	

285.20 288.25 288.25 291.52 292.64 296.06 296.06 296.06 301.74 301.74 302.31 302.31 302.31 302.67 302.67 302.67 302.67 303.61 30 328.36 3330.79 3330.79 3330.79 3330.33 329.87 3320.11 329.66 328.89 322.82 19, 92 22, 58 22, 58 22, 58 22, 58 22, 58 22, 58 24, 58 24, 58 25, 58 26 26.45 1.05 79, 0216 55, 7097 36, 7097 38, 7006 39, 7006 39, 7006 33, 7006 33, 7006 33, 7006 33, 7006 33, 7006 31, 9166 4467 5615 5615 5615 4460 4460 929, 929, 9 46, 6561 33, 6561 33, 6561 23, 6736 23, 6736 24, 8342 13, 6462 13, 6462 10, 0374 10, 0374 10, 0374 10, 0374 10, 0374 11, 6488 10, 0374 10, 0374 10, 0374 11, 6488 10, 0374 11, 6488 200. 28 200. 2 IFST NUMBER 9999. CAFE CANAVERAL AFS, FLURIDA 18182. 18 JAN 1784 FWN-10D OK SPD EB AFS MAR, 198 DEALDING ALTITUDE 33000 34000 37000 37000 37000 37000 38000 44000 44000 44000 44000 44000 44000 46000 56000 56000 56000 56000 56000 56000 56000 56000 56000 56000 56000 56000 56000 66000 27000 24000 29000 30000 13:16:40 FIL F 2 3000 2 3000 2 4000 2 5000 0001 00018

		PAGE			AIA	ROCKET DA		4	484I .	27 HAK	13:16:40
			•		•				Š	! !	
		400.	301.12	13.68	12.3448	8.0014	76	223,54	5. 4. 4.	243	32220
		. 003	•	7.66	•	B. 6278	•	722.31	. 34	247	32000
	** : 4000 - 1000	. 002	299.17	9.28	14.0269	8.9614	62	222.54	34	248	31750
		\$00.	259,83	14, 15	15,0659	9.6661	66	223,52	4 4 4 4	246 249	31250
		. 002	300, 31	9.86	15,5944	10.0374	59	224.24	35	245	31000
		.000	301,18	8.59	16.0978	10.4213); ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	225.53	J 4	245	30750
		110.	303.00	8.23	17, 1325	11.2261	57	228,28	32	251	30250
		400	302.84	67.8	12,7414	12.08/3 11.6488	79.	228,03 228,74	55	201 256	007.67
		.001	302.05	22	19.2657	12,5448	7.60	226,85	E .	262	27200
The board of the second of the		.010	301.78	8.76	20.0326	13.0210	80	226.44	33	263	29250
		003	301.80	12, 15	21, 5823	14.0297	45.59	226.47	32	90Z	28730
		-6.003	301.60	8.96	22, 4331	14,5633	27	226,16	2	355	28500
		.002	301.27		23, 3394	15, 1182	. 57	225.66	32	253	26250
		. 005	259,46	7,83	25.4677	16.3000	56	222.97	3.5	253	27750
		900	298.66		26.5959	16.931.3	- 54	221.ZB	30	253	22500
		900	298.61		27.6380	17.5890		221.71	00	253	27250
1		. 002	298,65	8.52	29,7784	18,5807	. 53	222.06	27	251	26750
s		003	298.75		30.9546	19.7173	53	221.91	70	252	26230
ROC		. 002	297, 39	5.32	33, 2199	21.2844	51	219.90	26	256	26000
I		400.	297,40	7.50	35.0402	22, 1187		219.91	52	256	25750
		400.	296.64	7,62	38.0410	23, 6911	52	218.80	67 S	252 254	25250
		010	236.06	3. 73	39.7002	24.8342	9	217.93	12	253	25000
		700	242.60	7. 36 7. 3	45.0470	26.8492 26.84842	44	217.23	123	200	24500
		.007	295.49	5,28	44, 7682	27.9103	.4H	217,10	22.5	264	24250
		Oin.	295.06	2.50	46.7066	23.0202	AB.	216.46	35	266	24000
		. 013	294.09	5.47	50.8551	31.3901	- 47	215.04	HT.	253	23500
		. 009	293, 33	5.64	53,1739	32,6534	•	213.94	91	263	23250
		870		5.61	55.5876	33. 97.58	• •	212.92	77	777	יייייייייייייייייייייייייייייייייייייי
		10.	292.47	5.27	60-4611 57.9083	36-7371 35, 3514	44	212.68	29 25 7 -	27.2	22.750
		.004	291,59	6.00	63,1007	38,2906	. 46	211.40	7	253	22250
: ! ! !		500.	291.52	4.69	65.7697	39.8551	. 45	211.30	7	547	33000
		00.7	291.49	3.00	68.4129	43.1700	4 4	203.02	<u> </u>	740	21.250
		.017	289,08	2.76	75.4187	44.5806	. 45	207,78	97	234	21250
		963	288.28	9	79.50.467	46.8.8	4	206.58	44	2.36 2.36	3001
		200	287,51	\ 0 00	86,2151	50.8632	. 4 . 4 . 4	202,53	<u> </u>	3	30000
		800.	286.67		90,3771	53.0085	14.	204,33	4 /	3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55	20250
		***	•	1.24		444.446	. 46	202.24	£.4	777	70007
		/SEC	T F8	4 58	6743	188 ·	CURR	*	e e	the G	CE UMA
		SHR	ر د	ž	DENSI ()	PRESS	ų.	E	9.5	¥ 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SUPER TIME

							with the second										And the second s							RO	cs	3	1																					
					•																																								•			
	900	000	i			400	3	000	900	805					1002	000	:	900.	1			i	ı]	I	F00.	1 -	T	•	.017	1	612	i	800	• •	•	700	•	700	•	•	. 002	. 002	700.	PAGE	M	
	302,34	303.47	303.88	304,25	304.90	305,81	306.69	307,36	309, 47	316.36	311.69	313.11	314.22	45.515	315, 76	316.74	317.81	319.24	321.28	321.82	322, 12	322.04	122.11	322, 19	323, 15	323.26	324.64	326, 18	326.65	327, 12	326.66	326.35	326.01	325.90	326.21	326.92	327.27	327.72	328, 16	378, 36	328,37	328.38	328,88	329.57	791.25		١	·_
	15.17	10.04	88	11.75	42	14.43	13.57	13,58	15.46	15.57	15.21	14.69	16.45	14.24	14.10	15.26	1	18.69	t	- 1	19.62	1	20.11	20.18	21.32	- 1	22.50)			22.61	Ĺ	3 6		1	22.06						31.41		32, 3/ 20, 05	20.70			
	11.8159	11.4687	10.4693	19,001	9.6655	9.2644	1088.8 8	8.5227 0 .774	7.8442	7, 5231	7, 2030	6.8933	•	6.1250	• 57	5.6801	5. 4550	5,2292	4.8330	•	4.5031	4. 2205	A. 0832	3,9503	3.6798	3.5490	3.4184	3.1763	3.0682	2.7639	2,7697	2,7679	2.5462	2.4682	2 43865	2,2312	2,1562	2.0837	2.0136	1.8888	1, B304	•	•	1.6367	-	(A		
	7, 7084	7. 15.69	6.906.	6.6517	•	•	•	3. /336	5. 35B0	5.1719	4.9942	4.8231	4.6603	4.3524	A. 2067	4.0669	3.4322	3,8035	3.5604	44	3,3347	15	3.6236	2.9266	2, 7424	2.6550	2.5712	2,4118	2,3365	2, 2633	2,1245	2,0583	1, 2314	1.8710	1,8125	7640	1.6462	1,5921	07479	1.4535	1.4086	1.3651	1,3233	1.2827	554777	RUCKET DATA		
	9/.	2,73	- 22 -	-, 72	75	B.)	۲.۲	> :	ļ			,		1				ا . دري	1	83			- 1		-1.8	_	-1.06	ĺ			- 95		1		77	1.24	24	1	2 K	-1,29	1, 53	37	. 91	. 4	70	RO	1	
	227, 27	228.62	227.60	230,16	231.15	232.53	233.86	255, 19	257.96	239.50	241.55	243.75	245,48	247.56	242,90	249.44	251.13	253,40	256.65	252,59	257.98	257.86	257.98	258.09	259.64	260.63	262,04	264.53	265, 29	265.00	265.31	264.80	264, 26	264.08	264.22	265.60	266.30	267.03	267.76	268.09	OT 897	268.11	ء ٻح	267,74	7			
				\$,,	4				- 1	882] ``	1		İ		27	1	 E3]	ŀ	<u> </u>		44		81			25				- 1	62.	1	D 7	1	1984		
	241	* C	13.6	236	237	239	7	0 7	245	248	250	25.5	254	355	25.5 4 5.5	253	252	252	252	252	253	755	259	263	270	273	272	270	262	262	238	222	122	161	HH	183	183	183	183	184	185	165	383	185		29 HAR		
	32/50	1.5750	90-17	33750	34000	34250	000	34/30	15750	15500	35750	36000	36250	14750	37,000	37250	37500	37750	36250	70CB5	38750	36250	395.00	39750	10250	40504	40750	41250	41504	42000	42250	42500	4.3000	43250	43750	44000	44250	44500.	14/00	45250	15500	15750	46000	46230	XXXX	33:16:40		
-		•					:			i i															-9					. •																1.33		

		1																											R	c	S	3									!		1				
				-				ı !										1		1												!															
																				1						-									1				!				:		-		
										:::::::::::::::::::::::::::::::::::::::								!		,						-									1										!!!		•
										!								!!!		,																	i						1				
																														ł																	i
	. 002	. 002	.002	200	500.	500.	2.5	500	500.	433	500.	500	. 005	000	. 002	190	.001	. 661	.001	333.	.002	500	.002	. 002	.002	. 662	. 002	200	200.	200	700	.007	500	.007	200	.007	700.	.007	ROO	800.	800	.00B	800	900.	800	. 008	
	3 50 36	330,79	331.22	331.66	332.09	551.55	660.44	550.55	529.73	624.55	329.18	329.00	328.83	328,66	328,85	729.18	329.53	329.87	330,21	330.41	330.37	330, 33	330,28	330.24	330,20	330,11	330,00	A	327.10	770 88	327,33	329.14	328.89	328.63	328.38	328, 12	327.87	327,48	77.075	326.07	320.36	324.65	323,93	323, 22	322, 50	322,13	
	53, 56	34.10	34.65	50 O	36.33	36.36	20.00	F	37, 13	94.86	39.07	40.57	41.48	45.69	43.46	44.66	44.65	45.25	42.84	- 46.39	46.85	47.32	47.78	A8.24	48.70	49.64	50.83	20.00	33.62	7 22	54.42	57.26	57.90	58.54	59.18	59.62	60.46	61,22	67.73		64.42		66.55	67.62	89.89	69.24	
	1.5474	1.4966	1.4474	F . C. C.	1.5538	1.51/0	11871	074211	1,2139	7+1+1	1.1445	1.1105	1.0775	1.0455	1.0123	9793	. 9474	4918	. 6867	- 48585	.8326	E/08	. 7831	7393	.7366	7145	. 6931	400	#700 ·	200	3 F O F	5784	5415	.5451	.5232	.5137	4987	4844	7778	4584	. 4460	. 4339	4221	.4107	3995	. 3939	,
	1,2053	1.1687	1,1333	**************************************		1.0332	1.0018	47/4	. 9419	- 14161-	. 8851	. 8228	.8316	- 0903	.7813	7574	. 7343	.7119	. 6900	*899°	.6486	6233	.6097	1185	.5731	5557	, 5387	2770	2000	A 7 F C	4644	.4472	4335	. 4201	-4072	. 3947	· 3826	.3708	Ser	.3478	7369	. 3264	3161	. 3062	5566	.2917	ı
	1:21	-1,49	-1.48	1.46	-1.45	D	-1.40	74.1-	-1.48	46.1	-1.65	-1.17	-1,68	-1.99	-2.05	3	-2,12	· 화 * * 연 -	-2.19	98.00 h	-2.23	-2.24	-2.25	-2.27	-2,28	2.33	-2.41	2 6	E7 C	20.40	-2.77	-2,80	-2.84	-2.87	-2.90	-2,94	=2.47	-3,03	41.5	-3.28	-3.41	-3,53	-3.66	-3.78	18.5	-3.97	
	271.35	272.06	272,78	444.44	274.21	27.5.63	272.31	4/1.01	270.32	49.49	269.41	269-13	268.85	268.58	268.69	268-44	270.00	270.55	271.11	271.44	271.37	271.30	271.23	27.1.16	271.09	220.95	270.76	2000	220.00	77.077	269.77	269.35	48.84	268.52	268.11	267.69	26/128	266.65	05-547	264.35	263.20	262.05	260.96	259, 75	238.60	258.01	:
	27	2.2	56	•	(A)	i i	C ?	* 6	4	4	₹	N	25	78	58 58	7	56	77	26	26	25	26	28	26	28	7.	26	12	9 7	3.7	3 6	25	7,	22	7	200	7.5	9 :	:	9!	21	14 ·	14	4 ;	7	41	,
	1 a 5	17.5	184	*	184	36 :	25.	<u> </u>		1	171	×9.	991	165	162	162	191	791	160	160	191	162	163	164	_	162	167	4 9	, , ,	120	2 2	174	7	180	183	187	17.	961	1	207	517	221	223	237	745	249	
! !	467,70	47000	47.50	4/100	47750	4444	00784	40004	02/8 4	ANTOC	44230	D0584	49750	20000	50250	405.00	20/20	51000	51550	51500	51750	521:50	52250	52,00	52750	23000	53250	57753	337.30	54250	00140	54750	25000	55250	55500	55750	20004	56250	ממייטיב	26750	77000	57250	57560	57750	DOUBLE	58129	1
		!				ì						,		:													В	19	95												1	() ()	L			ł

では、見なるのでのない。

__ haximuh_al_t1(uue_____61559____1

TEST NUMBER DOGGG CAFE CANAVERAL AFS, FLORIDA

SUPER LUKI FWN-10D

13:16:40 29 MAR, 1984

KOCKET DATA

					The state of the s										To the state of th											RO	cs		3																										
																																																	-						
SHR /SEC	665.	.612	.007	.015	910.	550.	.005	500	110.	200	700.	510	7777	9 (0	100	010	000	400	063	400	500	003	400	700	500	003	.003	005	. 603	910	. 662	900	25.	717	3	199		200	.005	900	.005	.005	1004	.003	.004	. (103	200	800	800	B00	900.		PAGE	כנו	
S) V	555.10	558.02	560.14	0	562,45	564.59	566.28	566.43	20 / 4 da	20.890	77.695	071.13	2777	. 4		575.07	574.40	577.	577.69	570, 13	580,35	580.58	586.32	470.04	581.59	584, 20	585.51	586.20	586.15	586.25_	587.16	568. 74	588.97	77 1/BC	584.73	582.02	50.70 SB1.24	580,86	583.07	586.02	568,25	589,33	590, 40 .	591.27	593,27	-	597.43	599.47	601.7%	5 8	/8./09	;			`.
KF N I S	14.42		11.28	16.91	8.36	12,85	25.67	19.69	19.41	4.00	20.60	10.61	97 05		•	12.70	24.68	2000	17.55	, .	26.68	23.19	20.04	20.00	25. 73	28, 28	22.90	41.59	19,31	28, 26.	32,33	35, 34	28.36	75 17	27.82	78. OC	20.02	24.93	37.54	47.11	45.02	32,17	40,83	37.72	44, 38	45,24	43,83	49.68	BB • 00	76.00	48.43				
DENSIIT G/M3		H7.4883	82.5830	78,5813	74.1346	70.6286	7887-99	63.0961	37. 8804	56.8771	53.5593	01.1704	9 44 A44	47.00.04	A3. 83.05	19. 7446	77. 7786	34.9754	34,2622	32.4768	30.8699	29.4464	28.1766	24. 8627	25, 5302	24,1654	22.9826	21,9977	20.9369	19,5594	19.0525	18,1130	17.3017	7070101	16.0317	14.7616	14.1.255	13,5123	12,8059	12,1126	11,4873	10.9416	10, 5236	•	9,4425	8.9709		8.1076					ſA		
FKESS MBS	24.1967	1.52	49.0046	46.6170	44.3550	2184	2032	2878	.	34. 7381	33,0963	31.5406	-300 004x	75 1714	24 6441	24.6587	27.7.40	22. 4240	21.5875	20. 6005	19.6643	18,7724	17.9210	17. (074	16.3324	15, 5982	14.9014	14, 2329	13.6048	12,5559	12.4230	11,8739	11.3508	CZEBIAT	10.36/0	0.4577	9.020.0	H. 6225	B. 2340	7.8668	7.5181	7,1870	6,8717	6,5713	6.2856	6.0141	\$122.5	0.00 0.00 0.00 0.00	0//2:5	0000.0	4.845/		KOCKET DAI		
FEMP Color	-,46	. 46	44	44	45	46	981	-, 46	40	€ .	8	4.	40	0	9 7	05.	9	1	- 49	6	1 1	15.	- 25		18	2,57	-, 56	7.60	54	- 5B	09.	191	. 58	- /5	90.	797	. 63	9.0	74	. 76	-, 74	70	7.2	72	B/ 1	*/ *	-27	83	8	9 6	187		-		
ERP A	203.03	205.17	206.73	206.68	208.44	210.03	211.29	211,40	217.10	212.96	213,52	24.42	20.512	20.70	217.19	217.90	20.0	219.70	219.89	220.5B	271.92	222,10	221.83	221.42	222.87	224,87	275.88	226.41	226.38	226.45	227.16	228, 38	228.56	27777	87.677	223.10	000.41	222,31	224.00	226.27	228,00	228.83	229,67	230.35	231,91	233, 55	235.17	236.78	200,000	740.77	293,90		4	1	
SFD 81.8	27	82	61	P.	37	36	77	25	4	3.3	¥;	() () ()	3 5	7	4 . 4	4 15	47	r 4	9) <u>-</u>	, 1 67	22	3	ď	1.9	62	3	62	63	64	4 9	50	63	4 C	6	3 3	3 4	9	67	- 67	89	69	12	69	2	7 }	72	4 ,	0.9	B (>	!	R, 1984		
01K UE	322	537.0	236	235	238	247	248	253	707	5/2	266	4 P		107	707	5.50	7.70	75.5	257	480	202	251	25	252	25.5	252	254	255	258	263	262	727	200	9,40	247 545	14.	040	747	245	245	239	237	236	236	238	523	9:	54%	0 5 4 C	7.47	. K93		29 MAR,	:	
AL.T Lacural 1	66000	900/9	\$8000 ·	90069	20000	71000	72000	30087	00067	00007	76000	200//	/Room	2004	0000	82000	9000 H	H4000	900gH	86000	30028	68000	HANGE	00000	41000	92000	23000	29000	90086	86000	47000	7.000g	00000	227	100000	10.000	104000	00000	106000	307/00	108000	000600	110000	111000	112000	3.3000	0000	00000	7777	000/1-	AAABT T		13:16:40		•
	,		i						i		F				1						1		į			8	-9	96						-																	-	,		1	

																									RC	cs	3																				
		:														1	:				· · · · · · · · · · · · · · · · · · ·																	! ! !			•						!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
																+ : :																				1										1	
10.07				. 29		. 82	75	. 64	. 63	. 98	36	. 67		4	62.	·		34.26 .017	74	33	40	49	36	25	· ,			, v	31	85	. It.04	44.74	43.31	, A	. 89	E2	87 47	638.93 .002	. 74	40,4	65	. 75	• •	40.4	23	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	PAGE
D G		j ağ	3	1	٦,	3	ñ	0.5	8	6	97	32	8 0	9	Ç1 () 	\ <u>.</u>	13	7	8 9	N K	7 8	53	ي و		59.22 6	7 5	, 20	22	55		22	34	12	36	6.1	25	142.93 6	-1 -21 -21	٠ د د		2	ر د	; ;;;			
6.5900	K. 510.7	5. 7.588:	5,4638	5.1893	4.9399	4,7250	4.5267	4.3516	4.1820	4.0167	3,6530	3.6884	3,5265	3.3208	3.2214	2.0883 0.00	2.8526	2.7511	2.6511	2,5535	2.45244	2,2641	2,1722	2.0834	1.7783	1.6500	1.7365	1.4787	1.5719	1.5087	1.3967	1,3381	1.2945	•	1.1692	7	1.0863	1.0067	8996	9286	.8574	8259	.7956	7383	.7114	: - - - - - -	Ţ.
4.6457	A. 0755	4.1024	٠.	``	3,6311	4	3, 3523	3-2215-	3	2.9750	2,8592	2.7482	2.6419	2.5404	2,4432	2000	2,1756	2,0932	2.0137	٠,	1.8635	1.7246	1.6595	47 6	ο 4	1.4236	1.3763	1.3192	1,2227	1.1225	1,0923	1.0521	1.0132	8674.	.9048	.8711	8386	.7773	7484	. 7203	. 6680	- 6433	.6195	0,478	. 5532	! ! ! !	ROUNET DA
8 x	i i	43.	3	\$7.					88		*6	-1.00		1		10.1	:	. 95	i	-1.07	ï	-5.23		1.27	11.23	-1,32	-1.36	16.1-	-1.50	7 -	1 :	' '	-11.46	-1.4K	-1.57	-1.71	-1.83	-2.06				-2,23	-2.25	-2.28	-2.34	! i	
247.65	747.73	249.64						1			258.			-	264.22				- }	264.29	i			267.03		!	1	220.06		1				270.24			268.93		i	270.54	1	-	271		276.9	1	4.4
o a		- 1						1	56							:					i	ļ	\$ 47			22	1	0.00 0.000 0.000			1 2				3 47	•	49					!				1	MAR. 1984
119000		i		_				1		130000 261				i		135000 267				41000	147000 190			146000 183		İ	185 - 0000 x 185	152066 183		54666 3	155000 184		58-360 J	159000 177	-	162066 170		. – 	91 000991	16/000 160 168000 160	· —	1	171000 163	173000 166	1 A	1	13:16:40 29 +
				-	-		-,					:			,		•								B -	97				1						ı					1	1				i	5.5

					ROCS 3				
		-	:			i			
			. !				 :		
, , , , , , , , , , , , , , , , , , ,									
. 002 . 002 . 003 . 003	2003 2003 2000	. 067 . 007 . 662	8000	800				; 	PAGE 7
			633.72 632.04 630.36 628.67				: ; :	į	
168, 18 172, 96 177, 74	186.26 188.82 188.82 191.37	193.93 196.49 199.05	202.78 207.65 211.32 215.58	224.11				i '	
. 6856 . 6607 . 6368	.5916 .5706 .5503	.5308	4613	3939					
. 5327 . 5130 . 4940	. 4580 . 4409	3933	.3370 .3242 .3242	2999					ROCKET DATA
4 23 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2.78 -2.78 -2.82 -2.85	2.50 2.90 48.94	3.25 -3.41 -3.41	-3.97					
270.70 270.47 270.25	269.67 269.17 269.17 268.66	268.15 267.64 267.14 267.14	264.61 264.61 263.21 261.81	259.41					
8222	124	38.8	27 23 24 27 27 27 27 27 27 27 27 27 27 27 27 27	222					1984
168 369 169	172 172 173 179	183 187 -193 –	205 213 222 232 232	249					29 MAR,
175000	179000 181000 181000	18:3000 18:3000 18:3000 18:3000	187000 187000 188000	190714 249 190714 249 HGATHUH ALTITUDE					13:16:40
1] 4	1			B-98				

ATTACHMENT 4
OUTPUT DISK FILE

PASS 1

3333	ars, Flokina	1984
TEST NIMBER	CAFE, CANADERAL	41661 NAL BE - SEERE
1511	CAFE	74144

		;					}						!										30	cs		3					i						1				į		1
													1						;										,				1										
									!		:		:				1		1						٠														;				
			!										,		1		:																:						i				
																			i		ļ		f		•		-		,				!										
															!		i						;		-		-		:										1				
									1								-				-						1		1				1						-				
			!						!		٠		; ;		1		İ		!				:												i				1		,		
			:										!		1		!		i																		:				1		
	~	78EC	グググ	500	500	900	900	003	500	500	500	003	100	200	100	005	100	004	800	100	900	900	700	004	010	912	800	900		002	200	003	500	100	001	002	200	004	200	900	800	908	
	SHK	S/	•	•	٠	•	٠	•	٠	. 48	. 60	٠	•	•	•	•	•	•	٠	•	•	•	٠	•	+	٠	1	٠	•	•	•	•	•	•	•	٠	•	69	٠	٠	٠	•	
	3	SAS	285.20	268,25	291.52	292.6	295.06	396.06	297.39	298.84	300	301.7	303	300,31	299.02	302,97	304.90	308, 42	-313.11	315.76	320.62	322.07	322.	325.51	326.98	326.01	326.84	328.36	328.88	330.79	331.55	329,35	328-66	329.87	330	330.11	329.	328.6	327.82	325, 3	322,50	322.1	
	ż	3FS	2.24	5.14	4.69	5.61	5.90	3.79	5.32	5.92	8.32	5.49	9.77	9.86	7.66	12.41	12.42	14.84	14.69	14.10	20.78	19.52	20.68	23.06	22.54	25,29	22.06	28.79	31.89	34.10	36.56	37,86	42.69	45.25	47.32	49.64	54.41	57.90	64.46	64.42	89.89	69.24	
	DENSITY	0/A3	*****	79.0216	65.7097	55, 5876	7666	7002	33, 7199	28.6684	24,3400	8008	_	5944	_	11.3387	-2.6655	8,1776	6.8933	5.5119	5.0131	4.3598	3.8140	3,2927	2.8739	2.5462	2,2312	1.9490	1.2142	1.4966	1.3170	1.1795	1.0455	9916.	8025	.7145	. 6329	. 5615	4987	.4460	3995	.3939	
	PKt SS	nbS	6-8888-888		9.8351	.97.38	9.0207		24.2844.		15.6962	13,5159	11.6488	10.0374	-8.6278 -	7.4280	6.4130	5.5516	4.8231	4.2067	3.6791	3.2276	-2.8323	2.4900	2.1929	1.9314	1.7010	1.4997	1.3233	1.1687	1.0332	.9131	. B060	.7118	. 6288	. 5557	. 4209.	. 4335	3826	.3369	. 2966	.2917	
	E MF.	CUKR	\$ 94.	44	45	.47	85.	50	157	., 51	57	-, 53	. n9	, 59	65	73		83		-, 79	55	-, 87		-1.07	. 25	-1.08	A2.1	-1.25	1.41.	-1.4y	24.45	-1.54	1.52	-2, 15	-2.24	-2,33	-2.63	-2.84	-2.92	-3.41	- 3.91	-3.97	
	(Ehr	×	202-24	206.58	211.30	212,92	216.45	217,93	219.90	222.04	224.66	226.37	228.24	224.24	222,31	228, 23	231,15	236,51	243.75	247.90	255.67	257.91	258,22	263.45	265,83	264.26	265.60	268.07	268.92	272.06	273.31	269.69	268.58	270.55	271.30	270.95	276.21	268.94	267.2B_	263,20	258.60	258.01	
<u>пот-</u>		3 44	13	14	7.5	91	ā	23	26	27	32	32	Ci M	35	34	35	36	38	41	41	36	30	. 77	24	17	91	7.7	62	55	27	25	24	45	5	56	56	. 5 6	24	2	ST	14	14	
73.4	=	034	455	238	24%	271	097	253	456	251	252	259	256	245	247	239	7.32	243	25.3	254	127	254	797	272	25.2	159	183	183	185	185	182	174	163	160	162	167	77 T	177	181	214	245	249	
TACL MELTIN	. H	(SE 1) MA	0000:	21000	22000	2.5000	.4000	25000	26000	27000	המחחה	29000	30000	31000	35000	93000	34000	35000	36000	37000	SBUCC	39000	40000	41000	42000	43000	44000	45000	46000	47000	4800C	49000	20000	51000	52000	53000	19006	55000	56000	57000	58000	58129	
		ļ			-		1				(}-	1()]									1				-				†		ı

PARIBUM BLITTUDE 61559...

CAFE CANAVERAL AFS, FLORIDA -..15152 18 JAN 1984

14:29:50 29 MAK, 1984 FASS 1 GUTPUT DATA FILE

PAGE.

				i i						!													F	ROK	cs	В								!		!					•								
	!														•				:							i			•		*							•											
																	!							i		•			,		:							:					:				,		
															:				•							1										•	•	!					, ,				į		
	1							:							1								3																					i	,		; ;		
	SHK ZSEC	***	900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.006	910	.017	.013	.00.	300.	400	7 7	R30.	600.	. 613	, 007	017	. 007	7007	B 50	900	100	400.	. 002	.004	2003	200.	900	900	. 005	2003	2003	. 833	2003	010.	33		110	600.	.00.	200	500.	000	500	.004	900.	PAGE	N	
	afr S	285.20	286.67	287.51	288.42	288, 25	269.08	287.94	•	281.52	291.59	25.41.22	242.64	293,33	.		295.04	295.49	295.60	273.08	204 44	292,04	297.40	227.39	298.24	``	298.85	298.61	298.66	259.46	300, 59	301.27	301.80	301,24	301.78	302,05	302.84	303.00	302,22	301.18	•	-	259, 17			301.12			
ě	ა 2 ද	7.24	20.5	79.5	3.68	41.4	2.76	6.64		4.69	6 .00	2,2,2	5.61	5.64	ા	5,42	5.20	5.28	7.36		55.5	H. 59			9.80	Z, 59 _	6.52	6.21	7.67	7.83	8.32	8.23	12,15	5, 49	8.76	C 1 1	0.77	8.23	9.79	8.59	9. B¢	14.15	10, 18 9, 28	7.66		13,68			
	G/M3	6556.556	•	86.2151	62, 2270	72,0214	75.4187	71.9885	68.4129	65, 7097	63.1007	57.0083	55,5876	53,1739	50.8551	48.7912	46. 2066	44.7662	43.0470	4104014	7007 120	36. 6983	35.0402	33,7192	32.2684	30.9546	29.7784	27.6380	26, 5959	25.4677	24, 3400	23. 5394	21.5823	20,8008	20.0326	19, 2657	17.7414	17,1325	16, 5243	16.0978	15, 5944	15.0659	14.0289	13,5267	12.9470	~	NATA FILE		
0	165	0000	54.0085	50,8632	48.8160	46. HER.	44.5806	43.190B	41.4843	39.851	38.2906	1287.405	33.9738	32,6534	31, 3901	50.1807	29,0202	27.9103	26.8442	1418.67	27.0017	22. 986B	22,1187	21,2844	20.4840	19, 7173	18.5807	17.5890	16,9313	16.3000	15,6962	15.1182	14.0297	13,5159	13.0210	12,5448	11.6483	11.2261	10,8174	10.4213	10,0374	7.6661 0.3074	8.9614	8.6278	8.3075	8,0014	OUTPU		
	CORR				44.	4	. 4	47	್. 4	 €.	46	44	. 47	. 48	٠.	47	4.	. 48	7.6		22	. 52	51		53	5		.52	47	-, 56	75	, i	. 59	15.	58	799-	70.	.5.	72.57	56	- 52	99	62	65	. 72	921	PASS 1	•	
	K	200.04	204.43	205, 53	206.82	206.58	207.78	204,02	211.25	211.30	211.40	1117H	9.65	213.94	215,04	215.50	216.46	217.10	42.72	217.23	210 00	218.41	219.91	219,90	221.15	227.82	222.06	221.71	221, 28	222.97	224,66	99.627	226.47	226,37	226.44	276,85	228.74	228.28	227,19	225.53	224,24	223,02	222.54	222.31	223,54	275,44	•		
	e si	,	1 -	1	2	4	18	18	8	17	<u> </u>	9 2	2 2	91	18	20	77	7.	7	7 7	d ₹	25	25	7.6	56	97	27	57	30	31		32	32	Ç	33		ຊຸ ຊຸ	32	33	34	S	ř. 3	45		34	34	MAR. 1984	! :	
7. T.	11K	4	0¥ c	3	236	71.	234	244	24/	249	5 77	27.5	22	26.5	253	253	797	264	7.63	2 K C K C K C K C K	250	254	256	256	254	7	182	253	253	253		207 200 200 200 200 200 200 200 200 200	256	252	263	9	707 Y≘C	251	8 4 7	245	77 c	040	248	247	245	2.6%	3		
SUFER LUKI	GEORG	99996	04560	20202	20750	0001	21250	21500	21750	22000	22250	20750	23000	23250	23500	23750	24000	24250	24560	06/47	25.55	25500	25750	26000	26250	26500	26750	27250	27500	27750	790BZ	00282	28750	30022	29250	90575 -	30000	30250	30505	30750	31000	31250	31750	90000	\$2250	3,500	4:27:50		
	i 1							1									İ		1					В	-1	02	2		İ		-										ļ			!	! ! 	1	1 -		

													!									!										RO	CS	5	3					1	1				l ı											1 1					
																	!															į	:										1																		
				. !																						:															,				:	!								:						•	
	•	•	•	35	٠ س	4.90 . 002	. 18	(00) 69.9	· ·		•	•	9	. 69		314.22 .004	30	5.54 .002	, , ,	•	•	7	4	62.	28	•	•	•	•	322.11	•	• •	•	201 21 100 AC 100 B	•	325.51 . 663		• •	327, 12 , 009	•	•	• •	• •		325.90 .012	21.	6.52 .008	. 48	27 .	72.	. 91	36	36 .	37	. 38	89	•	329.87 .662	1 m m m m m m m m m m m m m m m m m m m	PAGE	4.7
•	/1.61	٠,	10.08	12,38	11.75	12,42	14.43	13.57	52.71	9 6	77	91.49		15.21	14.69	6137 16,45 31	18.32	14.24	24.4	7	13.40) 	18.69	- 20.28	20,39		19,62	19.92	20.02	20.11	20.18	20.48	CE 10	20.10	0.00	3 3	23, 17	22.84	22.56	22,54		37.00	26.04	100	26.44	49	26,85	27,06	27.40	27.77	13	28, 79	29.66	30.54	31.41	31.89	32,37	33		FILE	1
:		7.47.d0 11.33B/	_		_		9881	44	۵ خ	5 3		٠,	· ,		9	.6	7	4	j 4	; (ָּי ה	יה י	ທ່	1	3.5604 4.83	4	4	4	4 63	36	7	200	7 4	, American		50	3	, _m	55 2.	2		: c	3	4	2		9 2.	N	2	ď	1.5476 2.01	÷	-	i .	1.3651 1.77		27 1.	. .		OUTPUT DATA	
	22/.2/	•	•	225.60	230.162											245,48 -,86						251.13		255.67 93		,						EH. 77	. '				İ		266.0696		265.31 95		1 1		264.08 -1.14			į	-	267.03 -1.23	-	÷	-1.	0	-	•	· -	276.55 -1.48		•	
	241	239 35	237 36	226 36	238 58	237 36	239	A1. 91.0	240	25.	07	243 37	04 847	250 40	253. 41	254 41	255.	250		10 m	203 40	39	252 38	251 36	252 34	252 32	253 31	30.	000	25.9	7.6 5.70	790	220 24	36 3.46	27.0	272	270 23	267	262 19	252 17	238 15	200	210	766	191	188 19	185 21	18.3 2.3	183 25	183 26	183 28	78.7 78.7	184 29	185 29	185 29	185 29	165 28	78° 28		29 MARY 1984	
1	52750	00083	3.5250	7777	33750	34000	34.50	0044	74.750	00037	V3.784	00708	35500	35/50	36600	35250	10.248	05/93	3000 E	100 F	3,200	7575	37750	35000	36250	3BDGB	38750	מקחקני	05062			-1			(15/0V	00.04 000.04	41250	41500	41/50	42000	42250	2000.4 0000.4	42750	0005.9	43250	435.66	43750	44000	44250	44500	44/50	77776	45250	45500	45/50	46000	46250	46500		04:29:50	

i

. . .

			ĺ					•		:	;	i i
•		PÀGE 4		!	DATA FILE	CULPUT DA	PASS 1	4	85T 18	29 MAR, 1984	14:29:50	
				:	i.	!		i	F⊌N-100	KX FW	SUPER LOKY	1
	: : : : : : : : : : : : : : : : : : : :				•	:		FLORIDA	AFS,	NAVERAL 18 JAN	CAPE CANAVERAL AFS, FLORIDA	
		!							0000	HER	I TEST NUMBER	
		•			!	:		65519	<u>.</u>	HTITA	HAXINUM ALITIUME	:
•	•	1		i	1	; ;		1		,	; ;	1
		900	322.13	69.24	- 3939	2917	-3.97	258.01	14	249	58129 28129	
		900.	323,22	67.62	.4107	.3062	-3.78	259.75	4.	237	57750	:
		800	323,93	66,55	4224	3161	3, 66	260,99	1 4	22.2	900Z4 000Z4	
		800	325,36	64.42	4460	3362	3.41	263,20	χ.	2.54	52000	
		900	326.07	35.	. 4584	3478	-3.28	264.35	191	207	56750	
		, 00.7 803.	327.48	61.22	4844	3708	-3.03	266.65	18	961	56250	
		200	327.87	ı	4987	3826	-2,47	267.69	0. 0.	781	56000	
		2002	328, 38		5232	4072	2.20	26B. 11	77	183	55500	
		.007	328, 63	!	.5451	. 4201	-2.87	268.52	22	188	55250	
	;	700.	329,14		.5784	.4472	-2.80	269,35	25	174	54750	b 4
s		.002	329,55	į	.6140	.4759	-2.71	270.03	27	170	54250	3-1
ROC		005	329.66		6324	4909	-2.53	270.21	26	169	53750	- (
		200	37.9.89	- 1	6725	5223	2.48	276,58	3.5	16H	53550	
		77	330.11	45.64	7145	5557	2.23	270.95	2,0	162	53000	
		-002	330,24		7595	5911	22.27	271.16	75	164	52500	
		.002	330,28	1	7831	4097	2.24	271.30	36	297	52000	
		.002	330,37		.8326	. 6486	-2,23	271.37	28	191	21750	
		700	330, 41		.8585	6889	-2, 19	271.11	5 % 2 %	160	51250	
	:	1001	329,87		9776	9117	2,15	274, 55	3	160	27000	
		100.	329, 53	ر ان ا	6474	7343	2,12	268.44	45	162	50566	
		.002	328.65		1.0123	7813	-2.05	268.89	2.5 2.5	162	50250	;
1 1 		200	328,83 328,66	<u> </u>	1.0775	.8316	1.88	268.85	97. 77.	166	49750	
		. 003	329.00	27	1.1143	. 8579	1.65	269.41	91 S	171	49250	
		400	•	98	1.1795	.9131	45.4	564.69	3	- 174	48000	1
		.003	329, 73	36.94 57.13	1,2473	9419	1.47	271.31	4 6	¥/1	48500	
		.003	330.94		1,3817	F100.1	1.46	2/2, 51	1 (N)	180	48250) 1
•		200	332,09		1, 35.38	1.0656	1.45	274.21	က (()	184	47750	
	: : : :	300	531.66	35,59	1.399B	1.0944	1.46	273.49	8	184	41300	
		. 002	531,22		1.44/4	1,15.53	1.48	272.78	3 8	2 2 2 2 4 4 5	47000	
		. 002	330,36	53,56	1.5474	1,2053	15.1	271.35	22	185	46750	

																								Re.	oc.	s	3			1 1 : :											!					:		:	1
													:	ż						!	:				:	•		i 																					
							1									•					1									:																	•		
315	/SEC	***	.012	.00.	11.0	910.	.005	200.	.011	313.	.007	.013	010	400	.00.	010.	455	* 2004	400	500	. 002	400.	. 306	.005	200	005	500.	010.	.002	900	200	/30.	. 100.	. 605	200	.005	900.	500.	000	500	,004	. 603	500.	E 000	P 700	. 00B	PAUE	ac.	
20	KJS	555, 10	0	550.14	20.07	552.45	564,28	566.43	567.44	568,52	~ .ı ·	571.13	• •	574.18	574.13	iĠ	•	27.7.4	51.01.0	580.35	580.58	580.32	278-87	581.59	384.20 585.53	586.20	586.15	586.25	~ :	568.74	587.22	584, 73	583.02	582.02	581.26	583.07	586, 62	568, 25	500.40	591,27	593.27	595,37	597.43	74.740	604.50	607.87	1		
1	S (2)			88		. 566 8 8 8 8		. 53	4.	74	9	16.81	1 09	73		<u>ئ</u> ر	80	0 u	3 ~		73	4	7		19 S	2 01	31	72		: **	302	28	787	9	30,28		11		\	3 2	38		83	D 3	- 5 •	4.5			
TH NS CLY	6/N3	92.5960	87,4883	62,5830	78.5813	74.1346	70,0786 66,7687	63,0961	59.8304	56.8271	53.5593	51,1254	46,0815	43,8364	41,8126	39,7446	37,7380	. 354 B429	32,4768	30.8699	29.4464	28.1366	26.8527	25,5302	- 400 TO	21,9072	20,9369	19,599▲	19,0525		17,3017	16.0317	15.4032	14.7616	14,1325	12,8059	12,1120	11.4873	10.7416		9.4425	8,9709	8.5266			6.9340	DATA FILE		
55333	MRS	54.1962	-	49.0048	46.6190	44,3550	42.7184	38, 2878	36.4660	34.7381	33.0963	31.5406	28, 6637	27, 3334	26.0661	24.6587	23, 71,50	72.0240	20, 6005	19.6643	18,7724	17.9210	12,1024	16.3324	13.09 BZ	14.2379	13.6048	12.5599_	12.4230	11.8739	11.330B	10.3670	- 9.9027 -	9,4572	9.0306	8,2340	7.8668	7.5181	4.8717	6.5713	•	6.0141	5, 7559			4.8457	GUTFUL		
15.1	CORR				44		0 4 4 0	46		. 45	. 48	.47	4H	48			٠. و ا	ı			-151	52	53	99	70.	09.	- 54	- 1			20.5	36.	63	64	79.	- 74	-176	- 74		77	7B	6/ *	29	7 W	86	. 87	PASS 1		
36.31	<u>-</u>	203.03	265.17	208.73	206.68	208.44	211,29	211.40	212.16	े	213.52	214.92	216.70	217.23	٠	217.90	218.91	77.717	220.58	221.92	222.10	221.83	221.62	222.87	224.87	226.41	226.38	226.45	227.16	228.38	227.20	275, 28	223.92	223.19	222.61	224.00	226.27	228.00	278.83	230,35	231.91	233,55	235.17	2.48.62	240.77	243.46			
980	. s . 4		~;		73 Y	S ;	0 ×	C.F	35	33	3	₹, 3 2, 3	40	41	4:	45	/ 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1) w	15	52	₩ 4	8	79			1	64	4.	7	0 4 0 4	· 6	-79-	99	99	8.7	67	- 68	۸ آر د و	; ;	70	7.7	7.7	7 /	2,5	6/	R, 1984		
313	9	43 34 34	539	9		23.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	747	253	263	273	266	01 0 0 4 4 4	261	265	259	253	253	100	400	1 21	251	202	252	203	757	255	258	264	262	7 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	248	345	245	248	249	245	242	238	/5.7 7.6	236	238	239	240	246	24.5	253	29 MAR,		
- -	र अधारण	65000	99079	68000	33359	20000	7,000	7.5006	74000	75000	76000	000/7	74000	Волов	81600	82000	83000	2000	86000	1:7000	58000	33363	80000	00016	0.0028	94000	00000	96000	82000	KBOOD	000001	103000	1.2000	30.4000	000401	106000	000/01	- LOBOUL	000601	00011	112000	33,000	0000511	1,6000	000/01	118000	14:29:50		
1						1					!			į										B -	10)5									:						1				i •	1	' -	•	:

			ĺ									
		₽46€ 6			DATA FILF	ส เกรเกย	FASS 1	₹	1984	29 haky	14:29:50	ا بہ ا
		i. p. i.				Į.			1			'
		000	641.44	159.67	. 7383	. 5532	-2,28	270,92	3 6	166	173000	
		. 002	13	. 80	17664	7966	-2, 26_	271.18	Š	164	172000	
		.002	641.64	155.97	7956	.6195	-2,25	271.27	3	163	171000	
		000	41.	152,27	.8574	. 6680	-2,21 -2,21	271.44	25. 13.	150	169000	
		9	641.34	150,67	87.18	E02/	-2,18	271.61	7 5	160	10/000	
:	1	1001	639.74	145.31	8996	7989	-24.16	269.66	ភ	191	700991	j
The same of the sa		.002	638,93	142.93	1.0067	5777.	-2.08	268, 98	120	162	165000	
		300.	638.87	135.02	1.0863	. 8.586 . R6.73	-1.85 -2.50	268,93	49 08	167	163000	
•		₹00	639,28	130, 19	1,1220	. 8711	-1.71	269,22	4B.	179	7 62000	
		400	639.68	125,36	1.1692	9048	-1.57	269.61	4.7	173	161000	
		.003	641.87	121.11	1.2523	.9758	-1.47	271.46	7.4	179	159000	
		1003	643,31	120.34	1.2345	1,0132	46.1	272, 68	48	181	DOME	
		2002	644.94	117.24	10320	1,0923		27.5463	9 9	184	20000	
		. 002	5	114.27	1.4485	1,1341	-1.48	272.76	27	184	155000	
	i	. 002	641.31	108.62	1.5087	1.2227	-1.50	270.98	4 €	185	153000	
		200	640.14	104.79	1.6387	1.2700	-1.41	220.00	9 5	185	322000	,
	-	1001	632.90	102, 72	1,7805	1,3763	-1.36	268,11	77	185	770051	ιdε
ocs :		000	637,68	99.22	1.6500	1.4236	-1.32	268.09	57	184	149000	j-
. R /		.007	637.67	92.55	1,9983	1.5368	-1.23	267.52	26	183	147000	ı
		.007	635.56	69.65	2.1722	1.5969	-1,24	266, 15	4 6	183 183	145000	
1		870	634.64	BB. 48	2.2641	1, 2246	1.23	265.38	, 4	184	149000	
		110.	633.16	86.82	2.4577	1.8635	-1.14	264.15	35.5	190	142000	
		. 012	633, 33			1.9371	1.07	264.29	3	300	141000	
		210.	4.	74, 30	2,7511	2.0932	36.	265.06	80.5	230	1.59000	
		.009	635.48	73.97		2,2613	96.	265, 08	3	262	38666	,
		600.	634.37	75.19	3.0883	2,3505	יייי-	265.15	14	797	136000	!
And the state of t		. 003	633,25	76.42	• •	2.4432	-1.07	264.22	4 4	272	1 55000	
		.005	629.20	72,28	•	2.6419	-1.04	260.85	6	273	153000	
		200.	622.67	69.82		2.7482	2000	259.58	i i	270	000181 00028 C	
		800	625,80	60.99	4.0167	2,9750	26.	258,03	4	197	30005	
		000.	625.63	65.78	• •	3,0958	- 68	257.89	1 9	25/	129000	
		700.	625,75	64,95	4.5267	3,3523	/8'-	257,99	9 3	10 S	12/000	
		900.	24.		٠	3,4888	91	257.23	64	255	30090	
		.007		67.75	• •	3.6311	.97	٠.	; 8 9	200 200 200 200 200 200 200 200 200 200	125000	1
		500.	617.73	54,20	5,4638	3,9372	() A	251.04	9;	252	123000	
		400	⊸ .	49.08	•	4.1024	48.	147.04	67	253	777077	1
		.002	*	49.55			16	247.72	B	254	121000	ı
			610.07	58.39	6.0703	4.0407	o si	247.43	2 2	# 40 00 10 10 10 10 10 10 10 10 10 10 10 10	000611	
		:			:		:		i			1

1,0000 12 12 12 12 12 12 12												1					į
1,7000 197 51 20.02 5.02	-	75.35		3	77.0	**		1331	9	3	4						
17,700 12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	┙,	2000	101	3	27.07.2	* 1 * 1	/250	engo.	100.10	; ;	9 (•
17,000 172 12,000 2.0 1.0		19097	791	Ē	770.47	50.00	. 51.50	/099.	172.76	640.70	700.						!
150000 72 12 20000 73 12 20000 73 12 20000 73 12 20000 73 12 20000 73 12 20000 73 12 20000 73 73 73 73 73 73 73	-	77000	65.		270.25	-2.62	. 4940	8989	177.74	640.44	. 002						
14,000 17, 14, 20, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17	1	-3944	37.	: :	270.03	7.7	4737	. 6137	1854 C.	640.17	3			!			
March 1970 179 1	- ·	2006/	172	7 5	269.67	2,78	. 4580	.5916	186.26	639.75	. 003						
18,000 197 49 2074 2	-	0000	0/1	,	71.407	200	A 0 0 0 0	00/00	70.00T	07. A50	3						
18,000 187 36 277 4 277	4 %	00018		F -	30.007		****	0000	171.57	427 03	200						
185000 197 33 264.01 3.10 43.43 477.1 5.00 18.10 0.00 18.00 0.00 0		0.000.0	707	1 0	01.00%	400	27.02	0000	104 40	03/17.	3	٠					
165000 159 31 244.00 -3.15 262.7		2000	3	3 3	46 676	3	767.	37.04	100	47. 74.7							
187000 213 27 245.21 3.41 3.70 44.41 21.70 00000000000000000000000000000000000		85000	00	S	266.01	0	7.447	477	202, 78	4.55.AO	: acc				; ;	:	
180000 213 275 245.1 314 3150 446.1 211.23 640.4 430.4 4		90098	50%	; ;	264.63	10 S		7.645	267.05	633.72	800						
Handle 22 22 22 20 41 3.71 1110 4.71 23 25 26 3 26 3 26 3 26 3 26 3 26 3 26	_	87000	213	2	263.21	-4.4	3370	1444	211.32	47.07.4	800						
190714 244 27 2041 3.77 4.73 224.1 626.67 508 190714 249 27 259.01 3.97 7.919 227.16 625.76 508 190714 249 27 259.01 3.97 7.919 227.16 625.76 508 190714 249 27 259.01 3.97 7.919 227.16 625.76 508 190714 249 27 259.01 3.97 7.919 227.16 625.76 508 190714 249 27 259.01 3.97 7.919 227.16 625.76 508 190714 249 27 259.01 27 27 27 27 27 27 27 2	1 7	Hetelot	200	16		45.5	0405	41.74	20.50	430.34	900						!
1900.04		69000	232	27		-3,71	3118	4171	219.85	628.67	800.						!
190714 249 22 288.01 3.97 227.15 625.75 .008 MAXIDINE ALITIDE 201965	1	20000	242	7		-3.H6	2399	4034	224.11	626.97	800			•	1		
HANDRIM AL LITIDE 201965 14129150 29 MAR: 1984 PASS I OUIFUT DATA FILE PAGE	7	190714	249	27		-3.97	•	.3939	227.16	625.76	. 008			;	!		
14729530 27 AAR I 1984 PASS 1 QUIFUT DAIN FILE	मुद्	MUHIX	ALI TOD		201965				: :				: ! 	' : '	: !	٠.,	
14729150 27 FAR; 1784 PASS 1 OUFUT DATA FILE PAGE									!		1			!	, !		
LITERTON 27 MAR. 1984 PASS 1 OUIFUT DATA FILE PAGE						!	:				;	!			•		
1172150 29 riakr 1984 PASS I OUTUT DATA FILE PAGE	ļ													:			
14129150 29 MAR. 1984 PASS 1 OUTFUT DATA FILE PAGE									!		i i						
14129150 29 dAR. 1784 PASS 1 OUTFUT DATA FILE PAGE.																	
14129150 29 MAR. 1784 PASS 1 OUIFUT DATA FILE.											-			; ;	· · · · · · · · · · · · · · · · · · ·		
14729150 29 HAR, 1984 PASS 1 OUFUT DATA FILE PAGE										!	; ;				:	,	
14124150 27 MAR: 1784 PASS 1 OUIFUT DATA FILE PAGE															1		
14129150 29 MAR, 1984 PASS 1 OUTFUT DATA FILE PAGE	.										!			i 1 i	:	·	
14129150 29 dAR: 1/84 PASS 1 OUTFUT DATA FILE PAGE		:	;	!		,			· · · · · · · · · · · · · · · · · · ·								
14129150 29 daR, 1784 PASS 1 OUTFUT DATA FILE PAGE																	
14/29/50 29 HAR: 1984 PASS 1 QUIFUT DATA FILE													!		!		
14129150 29 HAR, 1984 PASS 1 OUTPUT DATA FILE PAGE		-	;	i				:	1	•		:	. !	,			:
14129150 29 MARY 1784 PASS 1 OUTFUT DATA FILE PAGE		;	1		i		:				1						į
14129150 29 MAR, 1784 PASS 1 OUTFUT DATA FILE PAGE																	
14(29(50 29 MAR, 1984 PASS 1 OUTFUT DATA FILE PAGE	 		!			!		• •		!	1			1	:	:	
14(29(50 29 MAR, 1984 PASS 1 OUTPUT DATA FILE PAGE	!		ı														
14:29:50 29 MAR, 1984 PASS 1 OUTFUT DATA FILE 77	1	!		1													
14129150 29 MAR: 1984 PASS 1 OUTFUT DATA FILE PAGE	1		• :	:			;					i					
14(29(50 29 MAR) 1984 PASS 1 OUTFUT DATA FILE PAGE	1			•			•						:				
14/29/50 29 MAR, 1984 PASS I QUIFUT DATA FILE PAGE																	
14(29(5)) 29 MAR, 1984 PASS 1 OUTPUT DATA FILE PAGE	:	; }															1
		20150	20 AAR	851	•	1 5500	THICKLE DAT	A CTI 6		1	DAGE	- 11	:	;		i	
					•						7						

ATTACHMENT 5 INTERMEDIATE SCRATCH FILE, DUMP AND BINARY

PASS 1

								Î				1									R	dc	s	3			1		•																	
i	i				1			1					:				1					1 :		i .																						
(A) (A)		04	***			. 99	-1.00	83	. 24	7.24	30	4 7	807	83				77	99	76	83	200	20 8	52	25.	55	.78	14.	9.	3.4 3.4	89	27.	83	: 70	45 45	17	. 36	65	, C. C.	2 Kg	26	34	79	.62		
1985 GALL BALL		604	20%	206	20 E- 005			308	1	!	731 -3,30			693 -2,83	1		į	652 2:12 652 2:12	647 -2.56	1		!	20.88.02 20.8-	380 - 5.75	Í		į		540 3,10	Í					452 -5.45		429 -7.36		404 6.03 204 7.03				336 -3,7		į.	
UN-CORR CRAP. DEFECTIVE	ပ	-	95	197.7 959.		. 7	i So	202.4 999.	202.7	202.7	203.8 L	204.4	2,000	207.0	202.5 1.	207.3	0.70	207.3	08.9	269.4	210.5	30.00	7,117		2110	212.4	212.7 1.	13.1	13.4	214.1	214.9	215.5	215.9	0.91	12.4	217.7	217.7	217.7	H	2,0,0		220.4	220.4 L	220.4		r'AliE -
CONNECTED ON-	: ==	۔	٠.	٠.	197.4	~	כע	4	~	i i	203.3	į .	4 34		1	~ .	206.6	. ~	10		_4			211.4 211.4		•	M	. .	3 n	213.6 2		0	.	212.6	; r >	!		217.2 2		. 40) N	3 ~	٥.	219.9		ті
HOD HOD.	PHONENT DEG	-8.07	46.8	3.50	1.00.7	4	-2.64	13.66	-12,39	-12.39	-5.62	- 1× · 0	00° - 5°	-2.09	-3.30	-5.81	19.01	-12,57	-9.62	-10.18			- 5. 8. 2. 2. 2.		į	-1.58	-3.06	T I	1.51	į	13	-6.61	-6.48	87.4.	-3.20			-3.63		22.73	-4.94	-7.06	-4.05	-7.33		SCKAICH FILE
UN CORRE	UNPUNENT CO	-16.35	86.91	-15,13	12.45	45.49	-5.07	-4.11	62.6-	8. 28	-12, 12	-11.60	.8.23	-8.03	7.64	-9.20	-11.45	15.67	-14.76	-16.64	-18.12	=17.86	-13,46	-14.37	12.72	-18.62	-12.01	-17,30	-17.52	-15,16	-14.79	-17.31	-20.41	80.02.	-20.14	-19.57	-22.32	-21,22	-26. 20	-23, 19	-24,52	-24.96	-24.64	-25.31		INTERMPTIATE
FF	UMPONENT C	3,27	5.03	-2,62	- HG *Y1 = -	-2.62	-5,02	-7.21	-9,19	51.7	%0°01:-	-3-01 -4-10	20 th	-5.22	484	-6.64	H/*/	-10.14	-9.97	-8.55	-7.26		97.0-	- 5.23	44.44	-3.05	=1.62		4 Å 4 1 0	11.25	-3.23	-5, 18	-5.69	Y8 .C-	-2.50	-1.68	-2,53	40.4	10.6:	7.554	-6.92	-6.2d	.5,82	-6.23		
CORR UFF	COMPONENT COMPONENT COMPONENT CO	-10.91	75.9·	-5.07	70.4.	-7.51	-6.88	7.54	-8.87	11.11.	-10.32		40.8-	-8.05	Br.33	-4.77	11.53	-14,63	-16.37	12.19	-16.91	=16.18	4/ ·07-	-15.52	=16.0B	-17.15	-17.9B	-17.77	10.00	15,97	-16.45	-17.38	-18,71	17.61	-20° 54	-20.80	-20.89	-21,08	52.15.	-22, 75	-23,73	-24,57	-24.92	-25.7		27 MAK* 1984
(871.33		19197, 42	78 * 607 6 t	19296.25	19610. 26	37694.52	19734.26	198421.73	20000.00		20160.87	40.80.00.	20475130	20694.45	88 2 1800	20905.71	09 77 77 77	70.76712		214113.42	21645.24	23.762.42	21742, 33	22166.02	22346.61	22479.30	22584.21	22741.99	27.0005.04	232.22.65	23345.01	23493.35	23673,91	72661 33	24152.46	24311.77	24477.23	24694.94	25017.84	25181,85	25420.55	25684.62	25881.54	26622.61	- !1	13176173 23
· •		ı	1			į	I	!									!				3-		1	Ì			1		ı								•		;		1	1		;	11	

7.85 221.9 222.5 11.361 -6. 8.97 222.0 222.5 11.265 -10. 8.97 222.0 222.5 11.257 -6. 8.98 224.2 222.5 11.257 -6. 9.97 224.2 222.5 11.257 -6. 9.97 224.2 222.1 11.202 -7. 9.98 224.2 222.5 11.202 -7. 9.99 224.2 222.5 11.202 -7. 9.99 224.2 222.5 11.202 -7. 9.99 224.2 222.5 11.32 -8. 9.90 222.5 222.6 11.32 -8. 9.90 222.6 222.6 11.32 -8. 9.90 222.6 222.6 11.32 -8. 9.90 222.6 222.6 11.32 -8. 9.90 222.6 222.6 11.32 -8. 9.90 222.6 222.6 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.6 222.7 11.32 -8. 9.90 222.7 222.7 11.32 -8. 9.90 222.7 222.7 11.32 -8. 9.90 222.7 222.7 11.32 -8. 9.90 222.7 222.7 11.32 -8. 9.90 222.7 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11.32 -8. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 11. 9.90 222.7 222.7 222.7 11. 9.90 222.7 222.7 222.7 222.7 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 11. 9.90 222.7 222.7 222.7 222.7 222.2 222.1 222.2		-46.23 -48.87 -56.41	-,170 -,246 -,331	273.7 273.4 272.7	271.5 271.1 269.9	24.75 -24.75 -25.61	5,61	-24, 4B -24, 79 -26, 4B	1 1
222.0 222.5 1.245 222.0 222.6 1.245 222.0 222.6 1.245 222.0 222.6 1.245 222.0 222.6 1.245 222.6 222.1 1.232 224.2 224.7 1.202 226.5 226.5 1.170 226.6 4 222.7 1.102 226.6 4 222.7 1.102 226.6 4 222.7 1.102 226.6 4 222.7 1.102 226.6 5 222.7 1.102 226.6 6 222.7 1.102 226.6 7 222.7 1.102 226.7 2 228.7 1.102 226.8 2 223.0 .946 222.8 2 223.0 .946 222.8 2 223.0 .946 222.8 2 223.0 .946 223.6 223.0 .946 223.6 223.0 .946 223.6 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 223.0 223.0 .946 224.0 225.0 .946 225.0 226.0 236.0 .963 226.0 226.0 226 226.0 226.0 26 226.0 226.0 26 226.0 226.0 26 226.0 226.0		-46.23	021.	273.7	271.5	-24.55	7.4.7 7.61 7.61	-24.86 -24.4B	
222.0 222.5 1.285 222.0 222.6 1.285 222.0 222.6 1.285 222.0 222.6 1.285 222.0 222.6 1.285 222.0 222.7 1.285 224.2 222.9 1.285 226.5 226.5 1.170 226.5 226.7 1.170 226.7 226.7		-37.22	57.0	27113	26948	-14,06	B 65	-23,60	- 1
222.0 222.5 1.285 222.0 222.6 1.285 222.0 222.6 1.285 222.0 222.6 1.285 222.0 222.7 1.285 222.5 222.6 1.285 222.5 222.7 1.202 222.5 222.7 1.202 222.6 2 222.9 1.132 222.6 4 222.7 1.132 222.6 2 222.1 1.132 222.6 4 222.7 1.132 222.6 5 222.1 1.132 222.6 5 222.7 1.132 222.6 5 222.7 1.132 222.7 228.6 222.7 1.1082 222.7 228.7 228.5 1.062 223.6 222.7 228.5 1.062 223.6 222.7 228.5 1.062 223.6 222.7 228.5 1.062 223.6 223.6 223.6 1.062 223.6 223.6 223.6 1.062 223.6 223.6 223.6 1.062 223.6 223.6 223.6 1.062 223.6 223.6 223.6 1.062 223.6 223.6 223.6 1.062 223.6 223.6 223.6 1.062 224.6 225.3 2.0 946 225.2 228.7 228.5 1.062 224.6 225.3 2.0 946 225.8 228.7 228.7 238.7		-33,27	, 027	272.8	274.3	-514.26	-11,58	-27,51	-2,33
222.0 222.5 1.285 222.0 222.6 1.285 222.0 222.5 1.285 222.0 222.6 1.285 222.0 222.1 1.232 224.2 222.1 1.232 224.2 224.7 1.202 226.0 226.5 1.170 226.4 222.9 1.132 226.4 222.1 1.132 226.4 222.1 1.132 226.4 222.1 1.132 226.5 223.1 1.132 226.6 222.1 1.062 226.7 228.6 1.1062 228.6 222.1 1.062 228.6 222.1 1.062 228.6 222.1 1.062 228.6 222.1 1.062 228.6 222.1 1.062 228.6 222.1 1.062 228.7 228.5 1.063 228.6 222.1 1.062 228.6 222.1 1.062 228.7 228.5 1.062 228.6 222.1 1.062 228.6 222.1 1.062 228.7 228.5 1.063 228.6 223.4 228.5 1.063 228.6 223.4 228.5 1.063 228.6 228.7 228.5 1.063 228.6 228.7 228.5 1.063 228.7 228.7 228.5 1.063 228.7 228.7 228.5 1.063 228.7 228.7 228.5 1.063 228.7 228.7 228.5 1.063 228.7 228.7 1.063		-31,41	.135	269.5	268.1	-21.56	-12,94	-28,59	-2.69
222.0 222.5 1.285 222.0 222.5 1.285 222.0 222.5 1.285 222.0 222.5 1.285 222.0 222.5 1.285 222.5 2.24.7 1.202 222.5 2.24.7 1.202 222.5 2.24.7 1.202 222.5 2.24.7 1.202 222.6 2.22.7 1.153 222.4 2.22.6 1.170 222.6 2.22.1 1.132 222.6 2.22.1 1.132 222.6 2.22.1 1.132 222.6 2.22.1 1.062 222.6 2.22.1 1.062 222.7 2.22.1 1.062 222.6 2.22.1 1.062 222.6 2.22.1 1.062 222.6 2.22.1 1.062 222.7 2.22.1 1.062 222.6 2.22.1 1.062 222.6 2.22.1 1.062 222.7 2.22.1 1.062 222.8 2.22.1 1.062 222.8 2.22.1 1.062 222.9 2.22.1 1.062 222.1 2.22.1 1.062 222.2 2.22.1 1.062 222.4 2.22.1 1.062 222.4 2.22.1 1.062 222.5 2.22.1 1.062 222.6 2.22.1 1.062 222.6 2.22.1 1.062 222.7 2.22.1 1.062 222.8 2.22.1 1.062 222.8 2.22.1 1.062 222.8 2.22.1 1.062 222.8 2.22.1 1.062 222.8 2.22.1 1.062 222.1 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.3 2.22.1 1.062 222.3 2.22.1 1.062 222.4 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.1 1.062 222.2 2.22.2 1.062		-27,08 -28,28	184	269.3	268,1	-32,83	0.17 7.68	-22,86	1, 59
85 221.9 222.5 1.265 86 222.0 222.5 1.265 87 221.4 222.5 1.265 88 221.7 222.5 1.265 88 221.7 222.5 1.265 89 221.6 222.5 1.265 80 224.2 224.7 1.20 80 226.4 222.9 1.132 81 226.4 222.0 1.132 82 226.4 222.0 1.132 83 226.4 222.0 1.132 84 226.4 222.0 1.132 85 226.4 222.0 1.132 86 226.4 222.0 1.132 87 222.4 222.0 1.1062 88 222.4 222.0 1.1062 88 222.4 222.0 1.1062 89 222.4 222.0 1.062 89 222.4 222.0 1.062 89 222.4 222.0 1.062 89 222.4 222.0 1.062 89 222.4 222.0 1.062 80 222.4 222.0 1.062 80 222.4 222.0 1.062 80 222.4 222.0 1.062 80 222.4 222.0 1.062 80 222.4 222.0 1.062 80 222.4 222.0 1.062 80 222.6 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 222.0 1.062 80 222.0 1		26.41	27.4	265.2	264.0	-19.1H	-34.26-	-22,36	- 54.34
85 221.9 222.5 1.265 86 222.0 222.5 1.265 87 222.0 222.5 1.265 88 221.7 222.5 1.265 88 221.7 222.5 1.265 89 221.6 222.5 1.265 71 222.3 224.7 1.20 80 226.5 224.7 1.20 80 226.5 224.7 1.30 80 226.5 222.6 1.170 81 228.6 222.7 1.162 82 226.6 227.1 1.151 83 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.063 84 226.6 223.6 223.6 991 85 222.4 223.6 223.6 991 86 224.6 223.6 223.6 991 87 222.6 223.6 223.6 991 88 222.6 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.6 23.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.6 23.6 23.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 223.6 991 88 222.7 223.6 991 88 2		_	.314	265.8	264.8	•	. 85.6-	-10.70	52
85 221.9 222.5 1.265 86 222.0 222.5 1.265 87 221.4 222.5 1.265 88 221.7 222.5 1.265 88 221.6 222.5 1.265 89 221.6 222.6 1.20 80 224.2 224.7 1.20 80 226.4 222.6 1.170 80 226.5 226.6 1.170 80 226.5 226.6 1.170 80 226.5 222.6 1.1062 81 228.6 222.7 1.062 82 226.6 222.1 1.062 82 226.6 222.1 1.062 84 226.6 222.1 1.062 84 226.6 222.1 1.062 85 226.6 223.6 223.6 1.062 86 224.6 222.1 1.062 87 224.6 222.1 1.062 88 222.6 224.3 .911 87 224.6 222.1 1.062 88 222.6 224.3 .911 88 222.6 224.3 .911 88 222.6 224.3 .911 88 222.6 224.6 223.6 .940 88 224.8 224.6 226.1 1.062 88 226.6 223.6 223.6 .940 88 224.8 226.7 226.1 1.063 88 224.8 226.7 226.1 1.063 88 224.8 226.7 226.1 1.063 88 224.8 226.7 226.1 1.063 88 224.8 226.7 226.1 1.063 88 224.8 226.7 226.1 1.063 88 225.7 226.7 226.1 1.063 88 226.7 226.7 226.1 1.063 88 226.7 226.7 226.1 1.063 88 226.7 226.7 226.1 1.063 88 226.7 226.7 226.1 1.063 88 226.7 226.7 226.7 226.1 1.063 88 226.7 226.7 226.7 226.7 226.7 1.063 88 226.7			.352	267.2	266.2	• •	-20, 61.	-2,88	- 18,61
85 221.9 222.5 1.265 86 222.0 222.5 1.265 87 221.4 222.5 1.265 88 221.7 222.5 1.265 88 221.6 222.5 1.265 89 221.6 222.7 1.202 80 224.2 224.7 1.202 80 226.4 222.9 1.132 81 226.4 222.0 1.132 82 226.4 222.0 1.132 83 226.4 222.0 1.132 84 226.4 222.0 1.132 85 226.4 222.0 1.1062 86 226.5 222.1 1.062 87 224.6 222.1 1.062 88 222.6 222.1 1.062 88 222.6 222.1 1.062 88 222.6 222.1 1.062 88 222.6 222.1 1.062 88 222.6 222.1 1.062 88 222.6 222.1 1.062 89 222.6 222.1 1.062 80 222.6 222.1 1.062 80 222.6 222.1 1.062 80 222.6 222.1 1.062 80 222.6 223.6 223.6 223.6 223.6 80 222.6 223.6 223.6 223.6 223.6 80 222.6 223.6 223.6 223.6 223.6 80 222.6 223.6 223.6 223.6 223.6 80 222.6 223.6 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 80 222.7 223.6 223.6 80 222.7 223.6 223.6 80 222.7 222.7 223.6 80 22		-23,32	369	265.2	264.1	10	-25,76	. 65	-23,63
85 221.9 222.5 1.265 86 222.0 222.5 1.265 87 222.0 222.5 1.265 88 221.7 222.5 1.265 88 221.7 222.5 1.265 89 221.6 222.5 1.265 71 222.3 224.7 1.20 80 226.5 224.7 1.20 80 226.5 224.7 1.30 80 226.5 222.6 1.170 81 226.4 222.6 1.132 82 226.4 222.6 1.132 83 226.4 222.6 1.132 84 226.5 222.7 1.062 85 226.5 222.7 1.062 86 226.5 222.7 1.062 87 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 222.7 1.062 88 222.6 223.6 223.6 223.6 89 222.6 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 223.6 223.6 223.6 80 222.7 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 223.6 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80 222.7 222.7 80		-20.20	. 463	259.0	258.1	-1,44	-26.06	-2.64	26.95
85 221.9 222.5 1.265 86 222.0 222.5 1.265 87 221.4 222.5 1.265 88 221.7 222.5 1.265 88 221.6 222.5 1.265 71 222.3 222.6 1.265 72 222.5 1.265 73 226.0 226.5 1.170 86 226.5 226.9 1.132 87 226.6 222.6 1.170 88 226.6 226.9 1.132 88 226.6 226.9 1.132 89 226.9 227.1 1.022 80 226.6 222.6 1.062 81 228.6 222.6 1.062 82 226.6 222.1 1.062 84 222.6 222.1 1.062 84 222.6 222.1 1.022 84 222.6 223.6 223.1 1.023 84 223.6 223.6 223.1 1.023 84 223.6 223.7 1.062 85 226.5 223.6 223.7 1.063 86 226.5 223.6 223.7 1.063 87 223.6 223.6 223.7 1.063 88 223.6 223.6 223.6 1.065 88 232.6 233.6 233.6 233.6 233.6 88 232.6 233.6 233.6 233.6 233.6 88 232.7 2 233.6 233.6 233.6 88 232.7 2 233.6 233.6 233.6 88 232.7 2 248.7 2 248.7 2 248.7 88 230.7 231.2 2 256.7 2 256.7 88 230.7 256.7 256.7 2 256.7 89 256.7 256.7 2 256.7 2 256.7 80 256.7 256.7 2 256.7 2 256.7 80 256.7 256.7 2 256.7 2 256.7 80 256.7 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 2 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 256.7 80 2		20 00	7254	73077	H 1727		-37.02	7547	727
85 221.9 222.5 1.265 80 222.0 222.5 1.265 80 222.0 222.5 1.265 80 221.4 222.5 1.265 80 221.6 222.6 1.265 80 221.6 222.9 1.218 81 222.3 222.9 1.218 82 226.0 226.5 1.170 83 226.0 226.5 1.170 84 226.0 226.5 1.170 84 226.4 222.6 1.170 85 226.4 222.6 1.170 86 226.5 222.6 1.102 87 226.5 222.7 1.062 88 226.5 222.1 1.062 88 222.4 222.1 1.062 88 222.4 222.2 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.4 223.4 223.4 3.911 88 222.7 22.23.4 223.4 3.911 88 222.7 22.23.4 224.7 3.91 88 222.7 22.23.4 224.7 3.91 88 222.7 22.23.4 224.7 3.91 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.4 3.92 88 222.7 223.4 3.92 88 222.7 22.23.4 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 22.23.5 3.92 88 222.7 222.7 222 88 222.7 222.7 222 88 222.7 222.7 222 88 222.7 222.7 222 88 222.7 2		-19.76	531	258.9	258.0	10.51-	-27.66	-9.47	-29.93 -24.67
85 221.9 222.4 11.301 -6. 80 222.0 222.5 11.285 -10. 80 222.0 222.5 11.285 -10. 80 221.6 222.1 11.23 -6. 80 224.2 222.9 11.23 -6. 80 226.9 226.9 11.170 -6. 80 226.4 222.0 11.12 -6. 80 226.4 222.0 11.12 -6. 81 228.0 226.5 11.102 -8. 82 226.4 222.0 11.12 -8. 84 222.4 222.0 11.102 -8. 85 226.5 222.1 11.02 -8. 86 226.5 222.1 11.02 -8. 87 222.4 222.0 11.12 -8. 88 228.0 222.1 11.02 -8. 88 228.0 222.1 11.02 -8. 89 222.4 222.1 11.02 -8. 80 222.4 222.1 11.02 -8. 80 222.4 222.1 11.02 -8. 80 223.4 222.1 11.02 -8. 80 223.4 222.1 11.02 -8. 80 223.4 222.1 11.027 -11. 80 223.4 223.4 223.0 10.045 -7. 80 223.4 223.4 223.1 10.02 -11. 80 223.4 223.4 223.1 10.02 -11. 80 223.4 223.4 223.1 10.02 -8. 80 223.4 223.4 223.4 12. 818 223.4 223.4 12. 818 223.4 223.4 12. 818 223.4 223.4 12. 818 223.4 223.4 12. 82 224.2 224.2 223.4 12. 82 224.3 223.4 12. 82 224.4 224.4 12. 82 224.4 224.4 12. 82 224.4 224.4 12		-20.B2	. 565	256. 7	255.Z	1	-34,12	-11.52	54.06
85 221.9 222.4 11.301 -6. 80 222.0 222.5 11.285 -10. 80 222.0 222.5 11.285 -10. 80 221.6 222.1 11.23 -6. 80 224.2 222.9 11.23 -6. 80 226.9 11.170 -6. 80 226.4 226.5 11.170 -6. 80 226.4 222.7 11.132 -8. 80 226.4 222.7 11.132 -8. 81 228.1 228.2 11.02 -8. 82 226.4 222.7 11.02 -8. 84 222.8 222.1 11.02 -8. 84 222.8 222.1 11.02 -8. 85 224.6 222.1 11.02 -8. 86 224.6 222.1 11.02 -8. 87 223.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 224.6 223.1 11.02 -8. 88 224.6 224.6 223.1 11.02 -8. 88 224.6 224.6 223.1 11.02 -8. 88 224.6 224.6 223.1 11.02 -8. 88 224.6 224.6 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11.02 -8. 88 224.7 223.1 11		-16.18	.598	251.6	250.7	-9.18	-38,26	-11.93	-37.54
85 221.9 222.4 11.301 -6. 80 222.0 222.5 11.265 -10. 80 222.0 222.5 11.265 -10. 80 221.6 222.1 11.232 -6. 80 224.2 222.9 11.232 -6. 80 226.9 12.24 11.20 -6. 80 226.4 226.5 11.170 -6. 80 226.4 226.5 11.170 -6. 80 226.4 222.6 11.170 -6. 81 228.1 228.2 11.12 -8. 82 226.4 222.7 11.132 -8. 84 228.6 222.7 11.102 -8. 85 226.5 222.1 11.02 -8. 86 226.5 222.1 11.02 -8. 87 222.8 222.1 11.02 -8. 88 226.6 222.2 11.102 -8. 88 226.6 222.2 11.102 -8. 89 222.2 11.027 -11. 80 222.4 222.3 10.045 -7. 80 222.4 222.3 10.045 -7. 80 223.4 222.3 10.045 -7. 80 223.4 222.3 10.045 -7. 80 223.4 223.4 10.027 -11. 80 223.4 223.4 10.027 -11. 80 223.4 223.4 10.027 -11. 80 223.4 223.4 10.027 -11. 80 223.4 223.4 10.027 -11. 80 223.4 223.4 10.027 -11. 80 223.4 223.4 10.027 -11. 80 223.4 8.223.4 10.027 -12. 80 2	:	=14.08	. 624	248.7	247.9	5.36	38.92	11,24	-39.65
85 221.9 222.4 11.301 -6. 80 222.0 222.5 11.285 -10. 80 222.0 222.5 11.285 -10. 80 221.6 222.7 11.232 -6. 80 224.2 222.9 11.232 -6. 80 226.9 12.28 11.170 -6. 80 226.4 222.6 11.170 -6. 80 226.4 222.6 11.170 -6. 81 228.0 222.1 11.02 -8. 82 226.4 222.6 11.102 -8. 84 222.6 222.1 11.02 -8. 84 222.6 222.1 11.02 -8. 85 222.6 222.1 11.02 -8. 86 224.6 222.1 11.02 -8. 87 222.8 222.1 11.02 -8. 88 222.8 222.8 222.1 11.02 -8. 88 228.0 222.8 11.02 -8. 89 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 222.8 222.1 11.02 -8. 80 222.8 223.8 222.1 11.02 -8. 80 222.8 223.8 223.1 11.02 -8. 80 222.8 223.	The second secon	1	-689- -589-	200	243.0	-12.56	- 44.42	-11.60	18 44 47 47 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
85 221.9 222.4 11.301 -6. 80 222.0 222.5 11.285 -10. 80 222.0 222.5 11.285 -10. 80 224.2 222.5 11.232 -6. 80 224.2 222.9 11.232 -6. 80 226.9 12.28 1. 80 226.4 222.6 11.170 -6. 80 226.4 222.7 11.32 -6. 81 228.1 228.1 1.02 -8. 82 226.4 222.6 11.102 -8. 84 226.4 222.7 11.02 -8. 84 226.4 222.7 11.02 -8. 85 226.5 222.1 1.027 -11. 86 226.5 222.1 1.027 -11. 87 222.8 222.1 1.027 -11. 88 228.0 222.2 1.065 -7. 88 228.0 222.1 1.027 -11. 88 228.0 222.1 1.027 -11. 88 228.0 222.1 1.027 -11. 88 228.0 222.1 1.027 -11. 88 228.0 222.1 1.027 -11. 89 222.8 223.0 223.1 1.027 -11. 80 223.6 222.1 1.027 -11. 80 223.6 222.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.6 223.1 1.027 -11. 80 223.1 1.027 -11	3	•	.710	240.7	239.9	-12.74	-35, 29	-14.87	7.24
85 221.9 222.4 11.301 -6. 80 222.0 222.5 11.285 -10. 80 222.0 222.5 11.285 -10. 80 221.6 222.7 11.237 -6. 80 224.2 222.9 11.232 -7. 80 226.9 12.28 1. 80 226.4 222.6 11.170 -6. 80 226.4 222.7 11.32 -8. 81 228.4 222.7 11.32 -8. 82 226.4 222.7 11.32 -8. 84 228.4 222.7 11.02 -8. 84 222.4 222.1 11.02 -8. 85 226.5 222.1 11.02 -8. 86 224.6 222.1 11.02 -8. 87 222.8 222.1 11.02 -8. 88 224.6 222.1 11.02 -8. 88 222.8 222.1 11.02 -8. 88 222.8 222.1 11.02 -8. 89 222.8 222.1 11.02 -8. 80 222.8 222.1 11.02 -8. 80 222.8 222.1 11.02 -8. 80 222.8 222.1 11.02 -8. 80 222.8 222.1 11.02 -8. 80 222.8 222.1 11.02 -8. 80 222.8 223.1 11	s	_ 4		237.8.	237.0		-34.90	-16.87	-34, 34
85 221.9 222.4 11301 -5. 86 222.0 222.5 11.265 -10. 87 222.0 222.5 11.265 -10. 87 222.0 222.5 11.265 -10. 88 222.5 11.245 -6. 89 222.5 11.245 -6. 80 22.5 224.2 11.232 -6. 80 226.0 222.9 11.202 -7. 80 226.0 222.0 11.132 -8. 81 228.1 228.1 11.132 -8. 82 228.2 222.1 11.062 -9. 82 223.4 222.1 11.062 -9. 84 222.4 222.1 11.062 -9. 85 222.4 222.1 11.062 -9. 86 222.4 222.1 11.062 -9. 87 222.4 222.3 -9. 88 222.4 222.3 -9. 88 222.4 222.1 11.062 -9. 89 222.4 223.4 -9. 89 222.4 223.4 -9. 89 222.4 223.4 -9. 89 222.4 223.4 -9. 89 222.4 223.4 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.4 -9. 89 222.4 223.4 -9. 89 222.4 223.4 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.4 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9. 89 222.4 223.2 11.065 -9.	C	• •	765	235.5	234.8	-19.56	-32.85	-18.52	-31.48
85 221.9 222.4 11301 -5. 80 222.0 222.5 11.265 -10. 97 222.0 222.5 11.265 -10. 97 222.0 222.5 11.265 -10. 97 222.0 222.5 11.267 -6. 98 221.6 222.5 11.232 -6. 71 222.3 222.9 11.218 -7. 98 222.0 222.9 11.202 -7. 98 222.0 222.0 11.132 -8. 98 222.0 222.1 11.132 -8. 98 228.0 222.1 11.132 -8. 98 228.0 222.1 11.062 -9. 98 222.4 222.1 11.062 -9. 98 222.4 222.1 11.062 -9. 98 222.4 222.1 11.062 -9. 98 222.4 222.1 11.062 -9. 98 222.4 222.1 11.062 -9. 98 222.4 222.1 11.062 -9. 98 222.4 223.0 9.46 -9. 98 222.4 223.0 9.46 -9. 98 222.4 223.0 9.46 -9. 98 222.4 223.0 9.46 -9. 98 222.4 223.0 9.46 -9. 98 222.4 223.0 9.46 -9. 98 222.4 228.5 11.062 -9. 98 222.4 228.5 11.062 -9. 98 222.4 228.5 11.062 -9. 98 222.4 228.5 11.062 -9.	RC.	•	518.	251.2	230.4	-18.47	-26.44	-19.77	-29,42
#5 221.9 222.6 11.265 -10. 90 222.0 222.5 11.265 -10. 97 222.0 222.5 11.265 -10. 97 222.0 222.5 11.267 -5. 98 221.6 222.5 11.267 -6. 97 222.0 222.5 11.245 -6. 98 221.6 222.7 11.202 -7. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -13. 98 226.0 226.0 11.10 -11. 98 226.0 226.0 11.062 -9. 98 227.0 11.062 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9. 98 227.0 11.065 -9.		_ †	.038	230.3	229.6	-21.98	=30.33	-20.42	-30.23
85 221.9 222.6 11.265 -10. 90 222.0 222.5 11.265 -10. 97 222.0 222.5 11.265 -10. 97 222.0 222.5 11.267 -5. 98 221.6 222.5 11.267 -6. 97 222.0 222.5 11.267 -6. 98 221.6 222.7 11.202 -7. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.10 -1. 98 226.0 226.0 11.062 -9. 98 226.0 226.0 11.062 -9. 98 226.0 226.1 11.062 -9. 98 226.0 226.1 11.065 -1. 98 226.0 226.1 11.065 -1. 98 222.0 226.0 11.065 -1. 98 222.0 226.0 11.065 -9. 98 222.0 226.0 11.065 -9. 98 222.0 226.0 11.065 -1. 98 222.0 226.0 11.065 -9. 98 222.0 226.0 11.065 -9. 98 222.0 226.0 11.065 -9. 98 222.0 226.0 11.065 -9. 98 222.0 226.0 11.065 -9. 98 222.0 11.065 -9. 98 222.0 11.065 -9.		-9.44	. 659	229.4	228.7	-13.24	-31,29	-19.07	-29.81
85 221.9 222.6 11.265 -10. 90 222.0 222.5 11.265 -10. 97 222.0 222.5 11.265 -10. 97 222.0 222.5 11.267 -5. 97 222.0 222.5 11.267 -6. 98 221.6 222.7 11.202 -7. 98 226.0 226.0 11.132 -6. 98 226.0 226.0 11.132 -8. 98 226.0 226.0 11.132 -8. 98 226.0 226.0 11.132 -8. 98 226.0 226.0 11.132 -8. 98 226.0 226.0 11.132 -8. 98 226.0 226.0 11.132 -8. 98 226.0 228.1 11.062 -9. 98 228.1 228.1 11.062 -9. 98 222.4 223.4 11.062 -9. 98 222.4 223.4 11.065 -9. 98 222.4 223.4 -9. 98 222.4 223.6 -9.			. 483	223.3	224.0	-18,14	136.02	-15.03	- 50, 91
85 221.9 222.4 11.361 -5. 80 222.0 222.5 11.285 -10. 80 222.0 222.5 11.285 -10. 86 221.7 222.5 11.287 -6. 87 222.0 222.9 11.287 -6. 87 222.2 222.9 11.202 -7. 86 224.2 226.9 11.202 -7. 87 226.9 11.130 -8. 86 226.9 11.132 -8. 87 226.9 11.132 -8. 87 226.9 11.132 -8. 88 226.6 11.132 -8. 89 226.9 11.132 -8. 88 228.1 1.062 -9. 88 226.5 1.062 -9. 88 226.5 1.065 -2. 88 224.5 1.065 -2. 88 225.4 22		•	630	222.4	222.3	-8.36	-24.13	-15.44	-31.3B
85 221.9 222.4 11.361 -6. 80 222.0 222.5 11.265 -10. 80 222.0 222.5 11.265 -10. 86 221.7 222.5 11.267 -6. 87 222.0 222.9 11.245 -6. 86 221.6 222.9 11.232 -6. 71 222.9 11.218 -7. -6. 71 222.9 11.202 -7. -7. -6. 86 225.5 226.0 11.10 -6. -7.		-9.37	.946	223.0	222.4	-11.43	-33,11	-13.01	-31.54
## 222.9		-14./y -9.i1	994	224,5	222.8		-33,87	-13,78	-30,95 -31,80
#5 221.9 222.6 11.285 -10. 90 222.0 222.5 11.285 -10. 97 222.0 222.5 11.285 -10. 97 222.0 222.5 11.287 -6. 22 22.0 222.5 11.237 -6. 22 22.2 222.5 11.237 -6. 22 22.2 222.9 11.237 -6. 22 22.2 222.9 11.237 -6. 22 22.2 22.2 22.0 11.237 -7. 42 222.2 22.0 11.202 -7. 52 22.1 226.5 11.102 -8. 53 226.4 222.0 11.132 -5. 54 226.5 222.0 11.132 -8. 58 228.6 228.6 11.02 -8. 58 228.6 228.6 11.02 -8. 58 228.6 228.6 11.02 -8. 58 228.6 228.6 11.02 -8. 58 228.6 228.7 11.02 -8. 58 228.6 228.7 11.02 -8. 58 228.6 228.7 11.045 -7.		•	800.1	225.1	224.6	13.86	-29.03	15.18	-31.45
#5 221.9 222.6 1.285 -10. 90 222.0 222.5 1.285 -10. 97 222.0 222.5 1.285 -10. 97 222.0 222.5 1.285 -10. 97 221.0 222.5 1.285 -10. 98 224.2 22.9 1.232 -6. 99 224.2 224.2 1.232 -6. 90 224.2 224.2 1.232 -6. 90 224.2 224.2 1.202 -7. 90 224.2 224.2 1.202 -7. 90 224.2 224.2 -7. 90 224.2 224.2 -7. 90 224.2 -7.			1.027	227.1	226.5	-15.26	-30,36	-13.42	-30.43
## 221.9			1.045	228.5	228.0		-31,34 -28,85	-8,24 -11,18	-31,52 -30,41
85 221,9 222,4 11,301 -6. 30 222,0 222,6 11,285 -10. 607 222,0 222,5 11,287 -5. 97 222,0 222,5 11,257 -6. 86 221,2 222,5 11,237 -6. 87 221,6 222,9 11,234 -7. 71 222,9 12,245 -6. -7. 80 224,2 222,9 11,232 -7. 80 225,5 224,7 11,202 -7. 80 226,6 11,170 -6. 80 226,5 11,170 -13 81 226,4 226,5 11,132 -13 84 226,6 11,132 -8. 84 226,6 11,132 -8. 84 226,6 11,132 -8.		-11-63	1.082	228.7	228-1	•	34.32	5.42.	27.75
85 221,9 222,6 1,361 -6. 30 222,0 222,6 1,285 -10. 97 222,0 222,5 1,285 -10. 97 222,0 222,5 1,287 -6. 86 221,2 222,5 1,287 -6. 87 221,6 222,9 1,234 -6. 71 222,9 1,232 -7. 42 224,2 224,7 1,202 -7. 56 226,9 1,170 -6. 80 226,5 1,170 -6. 81 226,4 226,5 1,132 -13. 82 226,4 226,5 1,132 -13. 82 226,4 226,5 1,132 -13. 82 226,4 226,5 1,132 -13. 83 226,4 226,7 1,113 -8.		30	1.102	227.2	226.6	-2.34	-32,03	-4.15	-32, 78
#5 221.9 222.6 11.265 -10. #6 222.0 222.5 11.265 -10. #7 222.0 222.5 11.267 -5. #8 221.2 222.5 11.257 -6. #8 221.4 222.5 11.257 -6. #8 221.5 222.5 11.257 -6. #8 222.5 11.257 -6. #8 222.5 11.257 -6. #8 222.6 222.7 11.232 -6. #8 222.6 222.9 11.232 -7. #8 226.0 226.6 11.170 -6. #8 226.5 226.5 11.170 -6. #8 226.5 226.5 11.170 -6.		-8.75	1.119	227.0	226.4	-A. 47.	-33.66	4.01	32.56
85 221.9 222.6 11.361 -5. 80 222.0 222.5 11.285 -10. 87 222.0 222.5 11.287 -5. 87 222.0 222.5 11.257 -6. 86 221.4 222.5 11.257 -6. 87 222.6 12.27 -6. 88 221.5 222.5 11.257 -6. 80 221.6 222.7 11.232 -6. 80 224.2 224.2 11.202 -7. 80 225.5 11.202 -7. 80 225.5 225.6 -1.186 -=9. 80 225.0 625.5 11.70 -6.		5, 15	1.132	226.9	226.4	-3.33	-30,32	18.21	30.83
85 221.9 222.6 1.361 -6. 80 222.0 222.5 1.285 -10. 87 222.0 222.5 1.269 -5. 86 221.7 222.5 1.257 -6. 86 221.7 222.5 1.257 -6. 87 221.6 222.1 1.245 -6. 87 222.3 222.9 1.245 -6. 87 224.2 224.7 1.202 -7. 86 224.2 224.7 1.202 -7. 86 225.5 226.0 1.126 -7.		-6,36	1.170	226.5	226.0	-8,03	-29,13	-8, 71 5, 9, 21	-30,77
85 221,9 222,4 11,301 -6. 30 222,0 222,6 11,265 -10, 60 -222,0 222,6 11,267 -6. 77 222,0 222,5 11,257 -6. 86 221,2 222,5 11,257 -6. 82 221,6 222,1 11,232 -6. 71 222,3 222,9 1,232 -6. 42 224,2 224,7 1,202 -7.			186	226.0	1830 m	75.50	-30.22	82.4	\$4.43-
85 221.9 222.4 1.301 -6. 30 222.0 222.5 1.285 -10. 07 -222.0 222.5 1.2695. 97 222.0 222.5 1.257 -6. 86 221.7 222.5 1.257 -6. 22.2.2 222.5 1.245 -6. 22.2.3 222.5 1.245 -6.		-7.62	1,202	224.7	224.2	*	-31.54	-9.75	. 50, 48
85 221.9 222.4 1.301 -6. 80 222.0 222.5 1.285 -10. 97 222.0 222.5 1.287 -5. 97 222.0 222.5 1.257 -6. 86 221.2 222.1 1.237 -6.		-7.94	1.238	222.9	222.3	.7.71	. 30.00	-8.84	24.63
85 221.9 222.4 1.301 -6. 80 222.0 222.5 1.285 -10. 80 222.0 222.5 1.285 -10. 87 222.0 222.5 1.2675. 87 22.2 222.5 1.245 -6.			1,232	222.1	221.6	-10,22	-28.58	-9.01	-28.40
.85 221.9 222.4 1.301 -6. .80 222.0 222.5 1.285 -10. .07 222.0 222.6 1.285 -10.	1		1.245	222.2	221.2	-8.86	-27.04	2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	22.23
.85 221.9 222.4 1.301 -6. 80 222.0 222.5 1.265 -10.			1.257	222.5	0.000		10.00		- 24.1.4
221.9 222.4 1.301 -6.		- 1	1.283	2,22.5	0.222	08*/-	27.46	85 · 8-	00 to 20 to
		•	1,503	4 1000	224.9	-7.85	78.83	1.65	
=7.40		, ,							

			ROCS			
-69.24 -69.24	· · ·					
535	: •	· · · · · · · · · · · · · · · · · · ·				PAGE 3
262.0				1		
267.0	: -					FILE
7 \$1 \$1 54 \$4 54 \$4	· ·				, ,	IE SCRATCH
-6.29 -34.35						INTERNEDIATE SCRATCH
7		:			:	
- 4. - 1.4.	† † †					24 MAR 1984
28127,53 78128,48 78128,48			B-113			6 86:96:81

							1	1						1							I .	ROC	es.	3							:													
		i								!							:					: : :									!													
Z Z.	D. B. A. L.	E_AS.E	avBSX.	J. B C.	F. ING.	FA,=U	. H.(U.)	9)4.6	N G N C	(, BU, 0	L. Br. H.	. DYXX	· NG CERT	V. A.B.	A.LX	A. BVEQ	EZH.B.	0006W.F		BUCKEN	DEBL	A	7. P. P. C. P. C. C. P. C. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C. P. P. C.	XWB @	имВХКО	400°w0	AKB.	VTB.R"	. X60.0	BYKY	NEKIH	DWDAST	FA.X.	.UB. 0.	, 5Á	F. ANZT		BLL	vF0E	*AGIT.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		PAGE	8
_	4554 POZHRKI HULLHRS4 8744 AS. 1858KBSRLA. J		_	14/3 A.LLAIP.DWJ.BC			DOMESTICANO STATEMENTS OF STATEMENT OF STATE			1851 D. MUSW BT (. BU. O. Actor of the Ac			7227 A.R. G/O.B NG(WH TOSO DIVERNESSA VAYP.		_	ESSI AL**AR. BOK. BUEG		_	AZEG BW.TG.TERSJ UNYJ		Ł		OSEL Am. #UJ-NB.P.PA?.A		7	F7C4 BYGSA. (FAW4DD/wD	<u>,</u>	5222 D_3(B.E.A(vIB.R"			7568 A.A.A.C.DADBKH 5468 AYH.B.2*A^\LBY!H		DAGG B. MYAN. B FA. X.	1		BEZ4 A.DODCL.B.J.ANZT REFO B. DAN. BEOKRES				B. L. Al. aB. Rrakevlad.	7000 BLBND 194. 5088 Dek. B. #An.			
0.180	7HT.3	25.53	4203	6210	4457	C113	10 10 10 10 10 10 10 10 10 10 10 10 10 1	4118	406E	- 42.0 - 6.0 - 6.0	42114	4459	40RC	CIES	4118	4206	C211	4207	4450	CiAn	C214	4117	C13F	C214	42BB	445E	C152	£216	C140	4209	4269	4461	C19F	C217	4116	C16E	C218	42nB.	4465	0413	135 135 135	777	E BINAKY HUMP	
4119 AD05	4204 ECVI			4457 44911 0140 3759			- 4114 - 1411 	į		4204 A816	1		- C210 7EEE			4206 6B96		_	C214 4622	ļ		1	4214 70AC		- C115 - F227	C157 3444	i	1	j		4461 2624 C15E 5000	1	C214 1E66	-	١.	C217 BB7D 42HR 3044	-	-		C218 6266 4115 4027			E SCRATCH FILE	
	A203 5248		~	C15F + 088	4119 3862		7211 FRAF		4458 DSFD	4057 0000 F154 0160	C136 7177		402F - R010					C211 4EEE	411/ - F48A			,	1.557 3000		İ	4117 3CE6		C214 E514			C216 3288		C16E 0A0E			6463 4080 014F FA22		C218 F555		4211 504			INTERMEDIATE	•
42163 4ALF	4456 3734	. 79		4319 6645		C211 26CC	42115 EAGE			C213 4055	İ		i	ļ		CIEC AAAA	4118 1E52		42117 ZEDY .			:		4117 6073	1	4209 6753		445E B3BC	-		4116 867V.		C216 4079			CL/A 6444 C/18 8444	•	L164 727E		0218 E017 4208 F248			27 MAK, 1984	:
	Odt			0) † †	1		916			236	i		1355 1356				:		787	260	2A8	787 787	897 0.00		1			0 15 0 25 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 1			318	!			i		358	i		378	386		0.31333	

																						RO	ocs	3				:			i						!								1		•
													1									:																	1								
		1		1			!						:		!													:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									•		1					
AUSUBLANBAL. A. 9.	A) A. Life of Hand Carlos Hands of Hand	******************	A. Y. B. Y. A. "B]T,	R. 304. GF AZGWIIH.	F	DI B.a A. a28.8.	G. LROTER HA. CK.	ALZUDIJOB., WA. GK R. 41 4. DR.L. AR		AB 'A.9.B.5v	٤	B.F.A.EB		SN	4. x. DL B #A. P./	G. LNGVVNDM. B. N.	A. B/B. 7 JAW. "BAT.	RB A. M. A MING.	Ba. Ba. A4. BYAGA.	DP. 78. TrA. &B. W.		A/WWIG4JBAJJA K-P*ASCiBel.Bect	A. 3ARUUDR. GB . X	46±181>,46. Bec/ Bewnd, EVA., UDS.?	B H MB'. B . UAX	Ba. HBC6, A TA. Y.	A3I. Bo. #Bpl. A. Nr	A: "*DUWXB.P:4. JC	B. VLABB BOPNBE. F	A20. B. YLAY6FBC. I	BD. a4. 9. 4. i 314. 2	B. N. AVO. B. \DATSU	DX ! WE, S. ARMPB U	AJDDD . LBAZ. A. &c-	APV.DVIHB.SUAV.	0. H4AL2 "D. OUB. M8	6=. YB! . 345. LB' N.	B_K)@vA.A.O.D.D.D.	BYF. B. YGRS. A. W	D. U. B. ') AW. 5B. '.	A. 188"A78"LCGN#3	АктПОВ.Н"АР.Н			≈ s	•	
398	3694	THAC :	DA90	802.	### 200	8888		3 6/62	4AEB	B576	36AB	1199	FF6E	/B48	F CAF	BY 1E AFFD	747A	EA12	n: 99	6522	225.1	33E.1 E54C	9008	634F 0C27	6222	F911	4EE6	0003	8866	FUBL	9182	3555	0605	- 2667	841D 45F9	CDEB	CFAE	640B	DF 77	2280	2333	89CD		PINARY DUMP	ı		
6CAE 4115	2t-6t til/2						i	ICF 7 C193	737F C21B			8729 C16C			7864 C19B			0777 446E				ı		8222 42E2				1	FOEE 42ES	-	i	5044 C1F4	COFO C21D		F355 CIDC	í	i	B068 447C	359F C195			E85E CIFO		FILE RINA	r		
	5 4123 4710 F	1	C170 A				i	621A 1							C21E . 7			C192 0	i			•	4472 0	1	- 1				42E4 F		1		! !		C21E F		ţ	C191 B	1	;		i		SCRATCH			
EZCB	\$009 \$607	4913	F911	9311	8AF9	7142	22.3%	BBSF	F800			- 2015 		536E	FDIB	FAFE	8750	- F7F11 -	89.66	DAAC	7023	SEBB	7555		6039	36AC	1193	7745	E222	2269	9869	BOAE	7381	_ 925B_	E948	8222	0733	1004	0609	7503E	4187	7096	***************************************	INTERMEDIATE		•	
	4466	:		4.14		C219	:				4113				ŀ	8213		54112 0000							- 1	42E3	i	4 4475			4			1	4479		i			L CZIF		1 -447E	*************	1984 INTE	!		
		:		90MG 4		9 0814					F 3AC1			-		7 8711 3 30.6E		2. 0916	į	_	27.77		2 1033	Ì		2 9EC8	İ		F 5640					j	116: 0	i		F 556E	i	D 5614		B 7444	******	29 MAKE 19	!		
588 C175	0000 000 0000 000	1	ں	Akto 4255	3 4		7313	308 C158		873		408 4200			420 C12							408 CIDC 470 C21E	ı	486 42E2	450 022	498 42E2	İ		458 C211	4C8 C182			4F.8 4478		566 022		i	518 420F		41	38	J D₩		68 68:18	1	=	
- ·	<u>.</u>	1	1 '	:	⊹rati I	. 47	'	-J =	ربيا ا	1	, ·		7 7	4	-	4	4	7	7	4				16		4.4	4	4	4 4	4	4	4.4	4		4 ₩.	10	#43	a F	ינו	4 1	ע רצ			\$: \$° !			

 -				1		•				:														R	oc -	s t	3				•				:										1	
								· · · · · · · · · · · · · · · · · · ·									I ;									:			!		i						· · · · · · · · · · · · · · · · · · ·						1			;
			! !					!							1		: : !					-							1 : : : : : : : : : : : : : : : : : : :		1			; !	;								•			
* 8. # 18 MBAIV	01.9A(0.14.00.1)	B. Z. B UB L. BC 4	B. Pak B. JOASCS	Ing. Beal Gla. A. ww	D. HLB. J'K.L. B. T*	B. vFBE! (BFY. GU. 7	AGU*D.NLB.K;B.FL	B. O. R. X. BFN. EG. F	GP48A6.UU.K#B.LM	- 1	RI VELJURHASUAMO	LC28K, 36CK, AN. 1	•	FBM. GBMX. G=. M	AVISTIG. BEKGAMLO	B#J.AKTDB01+BP8.	MECHAY, NI BAI.	By = Verification 5 B	B (HZA (. VB . F "A JTL	BulZBx.A@!l/B.D.	DB'ZUA3F7B&x.	AUY BW_1 BX) . [6 . Jr	RABIG M. B. t. B Y	0.wsBDD.TPB".4	69. (B.**DB.Y*B.ZN	C., Le. A. EB. (. AP	. BC HG. B. B. A.	A\[; C C. +w@ . 8X	B ND FB. B]AB) T.	B UA 3C. ! vC. 0 "	A HB. GWAOVFC. D.	C. U. enles. Gan E.	٠	D#P. E A. XAB	EC. #7C. 2NEZ	*£Zu.A.w.A+7.	R. Zahteatobb GPU-BED (UCASV+	B.)GA)A.BC.E	•	A., (B.L-ABANB., A.	11/6.6 ZH 6. JU	S.C.A.C.T"@/.)	B*D26∙A	AU., B., C. AUC.W.		1970
5416	2341	(4 C)	23.53 C3.53	F777	5444	SHH13	1893	2746	CREC	9376	5000	8500	E644. D	12ED	ECEF	FIBAE	LY1B	90E4	FACC	6408	F800	LAZE	2402	0EB4	BZCE	1,422	CIAA	3868	29F4	30A2	44FC	40E5	8 2222 a	9000	0183	3718	7528	8065	F830	8986	1000 1000 1000 1000	163E	FDFD	1789 1448	3010	RYNARY DIEE
7260 42E	27.2 62.1	9200 42E3	: -	EVC 0196		5993 40116	5888 U213	i			1999 4487 1990 1990		,		4		AD11 - C226		i		36B7 C226	RYUL - 40%E	j			DOF/ 4476 AB11 CiBG		2B77 407F	i	21F6 4310			C2EE BF2C		. 41		1563 C135	2E11 - 4310		66EE			1	CICF 4510 ROAK C125	ŧ	FILE
42E0 9	4480	-	COLF	4011B	C214 6	4256	CSID	•			-	4003		4250 1	:		9480		!		٠	1	42FA		C210	:		4310	!			1		,	1	C198 F]	,	Ĭ	1		i —	C12B _ (SCRATCH
		1844	į.							1 8000 V			,		A EZIS		9 9EEE		i			7 . UF 3E.		0 2E44	i		0 25.40	ŀ	1			-		2 7388 2 900C		5 F582	,			6 JURAII		1		567.A		INTERMEDIATE
		5807 C210			E84C C21E			E80 C212		UE51 C214		C36F 42EB	-		3833. 448 6			H1176 406E	!		8403 C227	,	42nn C192		003C 0222		2062 4310		į		1968 C219	-		00A C212		702A 44A5				83MC C216		D39C 4310	40.0	0000 CZ13	,	1944
C224 04			0153					i		0.212 4350		42EA CO	1				4082 C - 50				4490 84	i						C15C DI		C21A OF		Ì			4078 93		ı			(111) 4710 92		C220 D	+			27 HAR.
548	45.5	558 100	268	975	5/8	1.80	268	- n8r	598	094 -	348 540	568	77	508	pdd.	508	1010	0 47 0 FF	SFB	779	809	717	620		i	959 7	648	658	660	899	879	789	889	869	783 ····	6A8	989	779	8C8	200	000 040	6FB	6FQ	918	XX	13:31:29

	;															1		!					RC	cs	5	3							1		!	† †			1	;	: !			٠٠. د	•
:		!			:			!										ı	: !	!	!							:						!			:	 				1			
										,										:	:				1																	'. i			
			;	1					! ! !	,									1														;			!	; ;	! !				!			
			İ	 				i		i ,						:				!									!			1			•	i									
	B. NKAZX. B. UGC. TZ	C	. B. F. 4A. A. B. / X	11 - Q - 1 - 4 - 3 - 4 - 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1	AA. HC. JPC. U. 7. 16	629. EC A. CWB. 16	A. UNE. X. C. GFC. HS	G., VE+., CMI/A, J.P.	C G B CNF	. B. H. A. DL. R. Gp	C. a. C 6? Bolu	111. GAFEAH 443.L	BC. ".C. 2eT\"	FISHL DLa. AH. MR: a.	AD**AV. *C. /1C	GMI. BY I. DC. MAKKU		Vis. * P III - · · · · ·									-		;			ı	ı					 				i i			-
	F457 B.NKA7	٠ .	i	<u>.</u>					66Al C Pt	AAP	ر. 1					6BFS GMI.BC	ż.	: :		1								!														DINE	•	. T.E.	
		I L		4189						- 1		;		-				 - - -											1							•	1	; !		!		BINARY I			
	1530	100	7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	4145	4019	5877	C7E6	0424	3488	4400	LAOA	7434	OAE2	-84CI	AFBI	-11CE	7401	9		!												!			!		i					A IT A HO			
	± 3		1111		4310	4170	4310	14C3	- ECC.)	4 155	COSF	CZIA	4311	C148	4310	- 44E3	5013	***		1								 				i			,	,			:			SCRATC	· ·		
	203	***	6584 25.27	COEX	11070	8165	2870	1190	7E07	34.00	1590	SHEL	1685	7763	LFAA	E911	ATTO L	7 16 1		:					-				,			;		}	,		i	i ·				HOTEKNETITATE SORATOR			
	C187	10 10	677.7	41.14	4310	4403	8173	1,728 4,50	C028	81.50	4311	4145	4310	44 FLB	CIF9	C 23C	C1E2	2007	-		1								1			i	;	-		,		 				1			
	4E48	V	9118 3097	- · · · · · · · · · · · · · · · · · · ·	9748	8580	1.6.	26.76	19[6	20%E	F113	571CZ	51n6	2:389-	ひひひひ	4901	2007	70		1	1											!	1		i			١.				K. 1984	1		
	CZIB	4 6 6	\ (1.1\ \ (1.1\)	44EF	(31:3	C225	7 A C C C C	2100	4311	4161	4310	4404	C219	387711	C164	1.06D	0017			1			ļ					! 			1	!					i					24 hak.			
1	% %	. ***	81/	77.8	736	7.58	74(4	748	758	764	768	-770-	778	4500	788	73.0	8 / /												:				i		1	1		ı İ	1	1		14:41:29		•	
1		1		J J	i		!					1						1					В	- 1	1 8	8			;			!			1	1		I	1	1					i i

ROCS 3

ATTACHMENT 6
PROGRAM LISTING

PASS 1

INIF	INTEGER GIFFER (256) (REDUKH (32)	
FINE	INTEGIR KAMINDAT KAMINNINTH KAMINNEAK Kara manaka manaka manaka manaka manaka manaka manaka manaka manaka manaka manaka manaka manaka manaka manaka m	٠
notes a	- I	
	DATA BUFTER, RECORD, TIMETO, TIMELAST, ROLLOVER, TIME, PREVITHE,	
* KAD14 * /3583	KANTAN, 10U1, 10U3, 10U3, PC; KE, UKDINA /288*0,5*0,0,57, 29578,1,2,3,47,442,6371229,315,	
# 0.YE		
(1:5)	FUNDALENCE (SALTABUFFER (12)), (STEMP-ROFFER (14)), (SPRESS/RUFFER (16)),	
1179) *		
FEET X	(TEMF2)RECORD(23)), (TEMP3,RECORD(25))	1
TIMI T	INITIALIZE THE INTERHEDIATE AND OUTPUT FILES	
	[14]9[, 3]	
DELETE DELETE	TRUCKE FOUT	
C . INIE	INITIALIZE THE RAW DATA INPUT FILE	
edk.)	(YES "CROSCRA) REPRESENTATION (19901990)"	
PAUSE	N DRIVE 1.	R
NET COPEN	:	cs
NEAD	DEEN 1001: DETTESSOATATATERE 30	3
	READ THE TEMPERATURE CORRECTION COEFFICIENTS	
C INFEN	(PEN 3."RUGKETARLE.FM".ATT="L"."LEN=208.ERR=11Q. FFANG3.ERR=110.ENN=110 (AFC(I).PTC(I).PTC(I).T=1.51)	
REALIC CLUSE		1
	ASK THE OPERATOR OF THIS WAS A NIGHT LAUNCH	1
- <u>5</u> - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	WW.1E(10.200)	i
KEAQ	KEAQ (11,201,ERR=2,END=2) INFU)	
17 17	IF CINETINED, YE DUTAHT FIND ON OF THE TECHNISH OF THE CONTROL OF	
E. ASN.	ASN THE OPPRATOR FOR THE LIST DEVICE	
. C WKT16	WK11E (16/204)	
KEAD JE ON	KEAD(11,201,ER=4,END=4) INFUT	
TECH TECH 2	IF (INFUTED, TEXT) GEN IGUS, "OTY:2", ART="FL"; LEN=221 TF (INFUTENT, AN), INFUT, NE, "PR") GINO A	
- ; '		
13:53:16 29	29 MAR, 1984 KOCKET REDUCTION PASS #1 - MAIN ROUTINE PAGE 1	:

Control of the Contro

PMN-10AZUZD KUUNEE REPUUTION

THE UNE TRACES.

1.844.NE 1P3

၁	ASK THE UPERATOR FOR THE STATTON NUMBER	
		a marky defined a
x	WRITE (167.205)	
:	if (STANUM.L).i) Gitto 5	
- - -	ASS OFFRATOR FOR FTRST GOOD TIME	
- 3 -	M. De Tand Chem	
ε .	MALLE ALOTONS KEAD (114307+END=6+EKK=6) STIME	
	KEAD THE STACTON NAME FROM THE STATION NAME FILF	
0 C	THE	
1	TF (STANUM, G1, 97) GOTO 9	
	TO DIES APPRICATION OF THE TANK OF THE TRANSPORT OF THE TANK OF TH	
æ	CONTINUE	
	(a)10 16	
8	WRITELIO 210)	
٢	N: AII (11) 2009 F NI=4 F KK=4) (GIALIUNII (I) 1 I=1 10)	
د ه	READ THE HEADER BLOCK AND GET THE RINTIME AND SIZE INFORMATION	
9.0	18i N=0	
	CALL ROBLA (LOUGAIN KADUFFERALAIER)	
	TF (IER, NE, L) GOTO 100	RQ.
B-	INTERFECTOR	cs
- 12	THINE BUEFER (150)	3
22	ISEC=BUFFER(151)	
	I2=IHR-I1*10	
	I3#IHIN/10	
	I4=IMIN-I3410 ENCORE (ROCN) IME-13-13-14	***************************************
	GET THE TEST NIMBER AND THE DATE, AND CONSERT THE START	
: u	CONVERTINE	·
<u>:</u>	Straf Straff	
	IDTYFE(I) = BUFFER(I)	
	IDAY=FI.D (6U)FFER(148),1,5)	
1	IMONNET DIBUTE ER (148) (6/9)	
1	(B) + 10+16) + 1960	
	SULIDE FIGURE AND ASSOCIATION	
	1	
	FFER(6) .FO. (02)SONRF="A	!
1	IF (SUNDET YPE, EQ. 103) SUNDE = C	
1		
1.3453416	29 MAR, 1984 KOCKET REDUCTION	
• .		Ģ.

u t	paints a facility of professional profession	Į.
ا ا ان ۔	AND THE PRINCE OF THE PRINCE OF THE PARTY FILE.	
4 -	TRIANTERACTOULTER NOBIFERATOTER) TRICERATORY OF CONTROLOGIOUS CONTROLOGIO CONTROLOGI	
ا ا ا	UNPACE A RECURS FRUIT THE BUFFER	
, , , , , , , , , , , , , , , , , , ,	In 20 [=6,2] [0 15]=1,32 [RECHRICH=BUFFER(1832+J)	!
ن د	- NECURAL GOODS	
ے ا	IF (ELEVATION, LE. O. O. UN. SLANTKANGE, EQ. 977979, O) BUTO 20	1
ر ا ا	CHANGER THE 10 FLOATING PUINT	!
ي ا	PACULINE=TIME TIMELASY=TIMELO TIMELASY=TIMELO	
	IMEX=FIME10 FIIME10.LL.A.Q.TIMEX=65536.Q+11ME10	
	IF (TIME 10. GE. 0.0. and. TIMELAST. Lf. 0.) NGLLGVER=KGLLGVER+1.0 **IME=INEX+Ril INVER*455534.0 **IME=INEX+Ril INVER*45534.0 **IME 1. 40.1 m 20.	RO
ပပ	DS SINCE	cs
ນ		3
	IF (ISEC.LT. 60) 607U 16 ISEC=ISEC=60	
. 9t	IMIN=IMIN+1 1F (IMIN-17, 60) EDIO 12 [MIN=IMIN-60	Ì
/-	HB	
မျှင်း (၂၈)	TEMPERATURE CHECK	1
، د ا	րանման, Օ-թեր	1
ه عاد	18hF / 6 5 4 3 2 1 0	
) - O	(EMF) 1 1 0 0 0 0	;
L 0 L	1 1 0 1 1 1	
; ; !	1CT=1 JF (TEMP)	4
13:53:16	6 29 MAR, 1984 KOCKET KEDUCTION PASS #1 - MAIN KUUTINE PAGE	
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		i

THE CORP : THE PARTY OF THE PAR	IF (FEMP 3.1.	IF (FEMP3.L.1.999.0) [CT=[CF+L] bin(R (40.41.42.43.44.44.44).FE)	
THE STATE OF THE S	6.000 and FI		
THE THE THE THE THE THE THE THE THE THE	TAP=TEMP3		
THE CITE OF THE PLACE OF THE PL	6010 39		
THE CITE 2 LICE 3 LICE 2 LICE 3 LICE	3441 - July 35 - 35 - 35 - 35 - 35 - 35 - 35 - 35		·
WHEN THE THE THE THE TOTAL THE THE THE THE THE THE THE THE THE THE	CAPA (FEAFIX)	2) EMP 3 / 2, 0	
THE THE PROPERTY OF THE PARTY O	I de de la companya d		
THE CLEAR HEAR 22 / 2.0 WILL OF THE PER 24 / 2.0 WILL CHE WAS A THE PER 27 / 2.0 WILL CHE WAS A THE PER 27 / 2.0 WILL CHE WAS A THE PER 27 / 2.0 WILL CHE WAS A THE PER 27 / 2.0 WILL CHE WAS A THE PER 27 / 2.0 WILL CHE WAS A THE WAS A THE WAS A THE WAS A THE CORMINSON WE DISK IN DELEGATOR WAS A THE	TMP=(TEMP)	1+(EMF3)/2.0	
AND CHER INTERPRETATION TO NELVIN FUNE THE THE TEACHTH TO RELVIN FUNE THE THE TEACHTH TO REMOVE THE DATA DISKETTE AND REPLACE IT RECTION THE SUBSETTE OND THE CHAIL HE S DISKETTE ALE THE TEACHTH TO BE HOW THE DATA DISKETTE AND REPLACE IT ALES THAT THE SUBSETTE ALE THE TO ELLE HOUSE THE DATA HOURT CORALINGONE DISK IN DPI- ALL INIT'OF 1) WEAR DISKETTE AND CHARGE THE BEEN THE AND THE TOTAL THE	GUID 19 THP=(TEMP1	1+FEMF2)/2.0	•
AND CHEEK THE TEMPERATURE TO NELVIN RETICIOLO TITLET AZIMUTH-LEVANTURISLANTRANGE RETICIOLO TITLET AZIMUTH-LEVANTURISLANTRANGE SINTO 148 SIN	IMP=CTEMP1		
THE THE THE THE PROPERTY OF THE PATROLINE SLANTRANGE 3010 14 301	CONVERT TH	HE TEMPERATURE TO NELVIN	:
OND 14 OND 14	JE CIMP. NE.	.999.9) TMP=1MF+273.15	
AND NEE LUSE INC. LU	CONTINUE	2) ITIMATHP. AZIMUTH. ELEVATION. SLANTRANGE	
ASK THE UP-FRACING TO REMOVE THE DATA DISKETIE AND REPLACE IT WITH THE S. DISKETTE CALL RELEASE ("DEI") IER) CALL RELEASE ("DEI") IER) CALL RELEASE ("DEI") IER) READ INTO ("DEI") IER) READ INTO ("DEI") IERD	SO CONTINUE		
LINE THE S. DISKETTE LINE THE S. DISKETTE ALL INTC'DEL') ALL SECTOR TO THE TO THE CORMINSONDE DISK IN DPI ALL INTC'DEL') ALL INTC'DEL' ALL INTC'D	ASK THE OF	DATA DISKETTE AND REPLACE 11	
ALL RECEASE ("DEL", EER) ALL RECEASE ("DEL", EER) ALL RECEASE ("DEL", EER) ALL RIT("DEL") ALL RIT("DEL") ALL RIT("DEL") ALL RIT("DEL") ALL RIT ("DEL") ALL RIT ("ALLE 10 RET INTHE OF THE CO-RAWIN BEN IOUL; "DELECURINGLETE", ATT="L", LEM=110 - RELATION RELA	S JHI HITH	S. DISKEITE	
AND CHECK TO FILE TO GET THE START TIME OF THE CO-RAWIN AND CHECK TO HAKE SURE IT'S WITHIN LIMITS PEN IDUL, TR'I CONTROL FILE', AITH L', LEM=110, ERR=120 FEN IDUL, TR'I CALLATO, #3600, OLF LOGATIME CIT, 100, 18, ABS (PTIM-RP (IM), GF, 21600, 0) AND 140 AND 14	CALL RELFA CALL RELFA EAUSE TREE CALL INIT	1', IER) 14 DISK FRUM DP. AND	ROCS 3
PEN IDDI, "DEJICONTROLFILE", ATTA"L", LENATIO, ERRAIDO READ (IDDI) (X 1 = 1,7), I. ID IN-17, X, IT, (X 1 = 1,10), RLAT, X, X, X, X RETTABLIDAT (II. 1200) * 3500, Gafloat (MID. II. 1001) * 460.0 RETTABLIDAT (II. 1200) * 3500, Gafloat (MID. II. 1001) * 460.0 LUGSE IDDI 140 LUGSE IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI LUGS IDDI	READ THE I	START (THE OF THE WITHIN LIMITS	
10.05E 10.01 1.05	READ(IGUI) READ(IGUI) RETINELLO		:
THE TOUL TAPEL TEN=20 DELM TOUL, TAPEL TEN=20 DELM TOUL, TAPEL TEN=20 CALCULATE THE GEOPUTENTIAL GRAVITY COEFFICIENT AND GUTFUL THE BEOFUTENTIAL GRAVITY COEFFICIENT AND GUTFUL THE BEOFUTENT CALCULATE THE MID-PUINT OF ALL THE DATA LEVELS AND COKKECT THE FEHFERATUR 29 MAK, 1984 KOCKET KEGUCTION PASS #1 - MAIN KOUTINE PAGE	į.		;
SALCHLATE THE GEOPOTENTIAL GRAVITY COEFFICIENT AND GUTPUT THE RUN CHECKGUT TAB SALL CHKGULTROCKITHE) SALL CHKGULTROCKITHE) SALCH ATE THE HID-POINT OF ALL THE DATA LEVELS AND CORRECT THE FEMPERATUR 29 MAR, 1984 KOCKET KEGNOTION PASS #1 - MAIN KOUTINE	CLOSE IOUZ OPEN YOUL!		:
CALL CHKOULTY CALCULATE THE BID-POINT OF ALL THE DATA LEVELS AND COKKECT THE FEMFERATUR 29 MAR, 1984 ROCKET REGULTION PASS #1 - MAIN KOUTINE	CALCULATE AND GUTFUT	THE GEOPOTENTIAL GRAVITY COEFFICIENT	
JALCULATE THE HID-PUIN) OF ALL THE DATA LEVELS AND CGRRECT THE TEMPERATUR 29 MAR, 1984 RGCKET REGISCTION PASS #1 - MAIN RGUITNE	CALL GRAVI	UTTY ULIROCK THE	
29 MAR, 1984 KOCKET REDUCTION PASS #1 - MAIN KUUTINE	CALCULATE AND CORREC	ALL. THË	ı
	- !!	#I - MAIN KGUTINE	

CALUME TO STAND THE PROBLEM ON CALCULATE THE TOWN TO CALUME THE TOWN THE OWN THE CALUMETER WITH WITH CALUMETER WITH WARRENGE WITH WAR WITH CALUMETER WITH WARRENGE WITH WARRENGE WITH WARRENGE WITH WARRENGE WITH WARRENGE	ROCS 3
HOLI CORPESSION THE FIRE RADIANT THE TABLINE THE TABLINE RADIANTERS, (ALL FURESCH CALL DEKTIGE CUKVE (ALL PRESCH CALL DEKTIGE CUKVE (ALL PRESCH CALL PLOIT THE TEATUR CUKVE (ALL PRESCH CALL PLOIT THE TEATUR CUKVE (ALL PRESCH CALL PLOIT THE TEATUR CUKVE (ALL PRESCH CALL PLOIT THE TABLIS THE TABLIS (ALL PRESCH CALL PLOIT THE TABLIS (ALL PRESCH CALL PLOIT (ALL PRESCH CALL PLOIT (ALL RELECT CALL PLOIT (AL	ROCS 3
CALCULATE THE PERSSURE AND DENSITY, OUTPUT THE LARGED PAR FLOT THE LEMECRATUR CURVE CALL PRESCHE CALL DENTILO (NGCATIME) LECTORISE CA. 3) CALL PLOTCH (ROCALIME) LECTORISE CA. 3) CALL PLOTCH (ROCALIME) LECTORISE CO. 111, 112, 114, 1142, 1141, 1141,	ROCS 3
CALL DNEXTLO (KOCKTIME) LE CLOUTS, ED. 3) CALL PLOICH (RUCALIME) GELETE ROLKSAVE" UNEN 20, YOUCKSAVE" UNEN 20, YOUCKSAVE" (INTYPE I) 1-1, 142, IM1, IM2, RAWINDAY, RAWINHONTH, RAWINYEAR, (INTYPE I) 1-1, 133, (STA) IONIN (I) 1=1, 15) KOCKTIME, IDAY, * HONTH, ITR, GNAT, KE, ISONDE, IOU3, STANUM, IMON CLOSE IOU1 CALL RELEASE ("DP1", IER) STOP ERNOR MESSAGES IYPE ERNOR", IER, ON MSS DATA FILE - ABORT STOP IYPE ERNOR OR END OF FILE ON ROCKET TABLES - ABORT STOP IYPE ERNOR ON OPEN OF FILE ON ROCKET TABLES - ABORT STOP IYPE ERNOR ON OPEN OF FILE THAN & HOURS REFORE LAUNCH - STOP IYPE STOP IYPE ERNOR ON OPEN OF MSS DATA FILE - ABORT STOP IYPE ERNOR ON OPEN OF MSS DATA FILE - ABORT STOP IYPE ERNOR ON OPEN OF MSS DATA FILE - ABORT STOP IYPE STOP IYPE STOR	ROCS 3
GELETE "KUCKSAVE" UPEN 20, "KUCKSAVE" UPEN 20, "KUCKSAVE" UNTIVE (20) INI FIL2 IMI, IM2, RAWINDAY, RAWINYEAR, UNTIVE (20) INI FIL2 IMI, IM2, RAWINDAY, RAWINYEAR, UNTIVE (20) INI FIL2 IMI, IM2, STANING, IMON ULUSE 1002 CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUL CLUSE TOUR CALL RELEASE("PRI", IER) STOP ERROR OR END OF FILE ON ROCKET TABLES - ABORT STOP TYPE ERROR ON OPEN OF CO-RAWINSONDE FILES - ABORT STOP TYPE ERROR ON OPEN OF HSS DATA FILE - ARORT STOP TYPE ERROR ON OPEN OF HSS DATA FILE - ARORT STOP TYPE ERROR ON OPEN OF HSS DATA FILE - ARORT STOP TYPE STOP TYPE STOR	ROCS 3
CLOSE THE FILES AND QUIT. CLOSE TOUL CLOSE TOUL CALL RELEASE ("DPI", IER) STOP ERNOR HESSAGES TYPE ERNOR", IER," ON MSS DATA FILE - ABORT" STOP TYPE ERNOR ON OPEN OF FILE ON ROCNET TABLES - ABORT" STOP TYPE FRUDR ON OPEN OF FILE ON ROCNET TABLES - ABORT" STOP TYPE ERROR ON OPEN OF MSS DATA FILE - ABORT" STOP TYPE ERROR ON OPEN OF MSS DATA FILE - ABORT" STOP TYPE STOP TYPE STOP ABORT - ABORT - STOP TYPE THAN A HOURS REFORE LAUNCH - STOP	ROCS 3
CLUSE IOUI CLOSE IOUI CALL RELEASE ("DPI", IER) STOP ERROR MESSAGES TYPE ERROR OR END OF FILE ON ROGNET TABLES - ABORT' STOP TYPE ERROR ON OPEN OF CO-RAWINSONIE FILES - ABORT' STOP TYPE ERROR ON OPEN OF MSS DATA FILE - ABORT' STOP TYPE ERROR ON OPEN OF MSS DATA FILE - ABORT' STOP TYPE CO-RAWINSONDE TAKEN HORE THAN & HOURS REFORE LAUNCH - STOP	ROCS 3
ERKUR MESSAGES TYPE 'ERRUR', IER,' ON MSS DATA FILE - ABORT' SIGE TYPE 'ERRUR ON END OF FILE ON ROCNET TABLES - ABORT' SIGE TYPE 'ERRUR ON OPEN OF CO-RAWINSONNE FILES - ARORT' SIGE TYPE 'ERROR ON OPEN OF MSS DATA FILE - ABORT' SIGE TYPE 'CO-RAWINSONDE TAKEN MORE THAN & HOURS REFORE LAUNCH - SIGP	ROCS 3
TYPE TYPE TYPE TYPE THE THE ABORT TYPE TYPE TYPE TYPE THE ON ROCNET TABLES - ABORT SIDE TYPE TROOK ON OPEN OF CO-RAWINSONDE FILES - ABORT STOP TYPE TROOK ON OPEN OF MSS DATA FILE - ABORT STOP TYPE TOO-RAWINSONDE TAKEN MORE THAN & HOURS REFORE LAUNCH - STOP	3
TYPE TERROR OR END OF FILE ON ROCNET TABLES - ABORT SIDE TYPE TERROR ON OPEN OF MSS DATA FILE - ABORT STOP TYPE TERROR ON OPEN OF MSS DATA FILE - ABORT STOP TYPE TO FAMINSONDE TAKEN MORE THAN & HOURS REFORE LAUNCH - STOP	
TYPE FERRUR ON OPEN OF CO-RAWINSONNE FILES - ARORY STOP TYPE FERRUR ON OPEN OF HSS DATA FILE - ARORY STOP STOP TYPE TO FAMINSONNE TAKEN HORE THAN & HOURS REFORE LAUNCH - STOP	
SIGE TYPE TO FRAINSONNE TAKEN MORE THAN & HOURS REFORE LAUNCH SIGP	
The second secon	
* 55 (14)) 12) 205 FURNAL ("CLASSENIER STATION NUMBER FROM M. M.G.: XX(10)(10)",Z) 206 FURNAL (12)	
*	

ENB	
1	
į	
i I	
B-112	ROCS 3
	DAGE
13153216 29 MAR. 1984 - KÜCKET REDUCTION PASS *1 - MAIN KUULINE	
	CONTRACTOR CONTRACTOR AND CONTRACTOR CONTRAC

ROCKET NEIGHTON PASS 41 - LUMBING

13:54:51 29 MAR: 1984

heat diazal. Lindurite mutanti?

I met di aliati

meteri Ene Ciston brati Ficte

miller Sitolionificas) Found

i membri Preservite Sitolionificas) Found

i membri Preservite Sitolionificas) Found

i membri Preservite Sitolionificas

i membri Preservite Sitolionificas

i membri Preservite Sitolionificas

i membri Preservite Sitolionificas

i membri Preservite Sitolionificas

i membri Preservite Sitolionificas

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite Preservite

i membri Preservite Preservite Preservite

i membri Preservite Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri Preservite

i membri P

98

SUBMOUTTINE ADDINI THIS TON THE REAST NEAR 15 / 7 NEAR

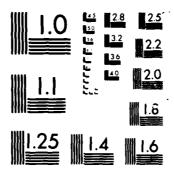
Όλπ (ΧΧ. ΧΑ) /Ω VY= (ff−fΩ) /U VZ= (Zf−f2) /D WRITE (fGU2)H•VZ•VX•VY•TF•t6G

6=66

. 3

T=1A XX=XA YY=YA ZY=ZA 10.00 98 (1.08) Y000 CLUSE 1002 0PIN J002, TAFE2 'LEN=32 GFEN IGU2, TAFE2 'LEN=24 RETHIN

AD-R163 634 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART

```
VENURI (224k24XCkk24)

IF (H2, L1, 2000), 0) 60 f0 | 30

)) (11, L0, 999, 9, ffk, 12, E0, 999, 9, DR, f3, E0, 999, 9) 6010 | 40

I=71-IFIX (H2/1000,)

if (H2, GE, 70000,) I=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) = f2
U) =U(2
U) =U(2
E C (- E0, 959, 9) UF = 999, 9
WKL IC (10,0 ) HZ+22+VX+VY+UXZ+HYZ+T+II
1C=1-Uf2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1407 SNUL (5466 F.Y. RUG1 6DU)
REAUC (1912) FREESO) H $7 25 K $7 C $7 C $18 S
                                                                                                                                                                                                                                                                                                                                                  Realterna, 9424, 224, 24, 12462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VX: X2: ((22*((X3*X1)7B1))/B)
VY::Y2- ((Z2*(((X*(1)7B1))/B)
                                                     Ratio barakest rate fellend for Kinding the Kinding States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August States of the August
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               46=6(C(1) * (V*U)
48=81C(1) * ((13 -11) /019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IF (NIGHT) AG=GFD(T)
AD=DFG(T) * F4
I=T2 - AA+AR-AC+AD
BUTU 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           No+ (10/(17-57)) =0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDUCCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PAREJED!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SK - KO - DK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       re-vr-rz
1611181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                111: 6.5-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1113-1112
1172-1173
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.444=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ?<a>\(\) = 1 < a</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             m) = m/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1112412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         113.5 : X3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11:5=15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11.5 (3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  { J=? J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2) = ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HSHT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ) 1= Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X = 1X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3.5
```

SHINE OFFERE TEACHERS

13:55±18 29 MAR, 1984 KOURCI REGUCTION PASS #1 - BANDIC

PAGE

B-129

į

U12-1113 63-63 62-63 60103 1001 6103 1001 6103 1001 6FEN 1001 10F2 11EN-32 6EUINN

3

13155118 29 MAK: 1984 NOCKET NEOUCTION PASS #1 - BANDIC

PAGE 2

```
1848°C () - FREGUR CD
8) GREGUELS (4 (Me) (SO) (6) (GREGUS) (FREE (S) (YYX (9) (YYY (9) (FOREDX (5) (FOREDY (5)))
18 AB CD ((FREE (S))
               Krabeshash 1641 (1) + 641 Kf (1) + XX (1 + 4) + VX (1 + 4) + Cukbx (1) + Cukbx (1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WRITE(IGU2)HEIGHT(I), FALLRT(I), SX,SY,CGRBX(I),CGRBY(I), FEMP(I),
                                                                                                WELLE CLOSS SHAFFAFKKOD, CCO JUKATUTA, CALUTA
                                                                                  REABOURD HATER AXX COTO COTOR INDICENTALINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (L,1) = XA(I,1) + KC(K,I) #XC(K,L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16(I, 1) = YA(I, 1) +1(; (N, 1) #YC(K, 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SX=25,4XB(3)+5,*XB(2)+XB(1)
SY=25,*YB(3)+5,*YH(2)+YH(1)
                                                                                                                                                                                                                                                         1F (XX(1) . EU. 959.9) GOIO 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       XB(I) = XB(I) + XC(K + I) + XX(K)

YB(I) = YB(I) + YC(K + I) + YY(K)
                                                                                                                                                                                                                                                                                                                                                                                              7C(I,J)=7C(I,J-1)*I
Fit 8v I=3,3
                                                                                                                                                                                                                                                                                                                                                                               XC (1-1) = XC (1+1)-1) +1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HE IGHT CD = WE IGHT CD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      THE COR (I) = THE COR (.))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FALLET (1) -FALLET (J)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CALL SIMB(KA, KB, 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CHRING (1) = CHRINA (LD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRY (1) ECORBY (1)
TEMP (1) = TEMP (1)
                                                   . 117.16.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XX(I)=XX(I+1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TCI)=(TCI)I)
Int 140 I=1,4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41:1 091 (Jil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             841=7 0£1 00
                                                   1Nc. Unt. 165
101-10-1-174
                                                                                                                                                                                                                                         Ver 1 0: 100
                                                                                                                                                                                                                                                                                           941=1 0S Du
                                                                                                                                                                                                                                                                                                                                                                                                                                11 BO J=1,5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Po 90 h=1,9
                                                                                                                                                                                                                                                                                                                                              70 J=2+3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 BO N=319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     50 90 I=1,3
                                                                                                                                                                                                                                                                                                                                                              70 1=1,9
                                                                                                                                                                                                                                                                                                            XC(1,1)=1.
STOREGIE LAR
                                                                                                                                                                                                                                                                                                                            rc(1,1)=1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA(1,1)=0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (A(1,1)=0.
                                                                                                                                                                                                                        K1665-15
                                                                                                                                                                                                                                                                          LUNTINGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      XH(1)=0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (B(I)=0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140
                                                                                                                                                                                                                                                                 ن د
ا
                                                                                                      Ξ
                                                                                                                                        <u>ې</u>
                                                                                                                                                                     ٥
                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     B-131
```

13:55:41 29 MAR: 1984 KOCKET KFILLOCTION PASS #1 - TWOKE

FAGE

7	160	WRI FE (11012) HE 1GHT (1) (F PET RE (1) (4) (1) (1) (1) (10 REALT) (1) (10 REALT)
	*	# IMPON(1)
-		C) (2) (2) (1) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
		Ca (Ca) 1902
		CS-NATI- 12 R1 - 11 R1
		CS-N31-23450. *CDC N2.61
		00 300 1=1*1000
		NEGD CIDACA NICEOLO A
007	2	CONTINUE
402.		1 - 1 - 1
		[F (1,6f, 1) 60f0 205
		Bu 202 J=1+1
		IF (J. NE. I.) BALKSPACE 1002
		RACKSPACE 1002
		KEAU (IUU2) HAJFAJKIT JUKAJUTA FAJUTA
!	1	. IF (HG, 61, 70249, 0) 16=999, 9
25	2	WKITE (IGUI)HA,FA,X,T,UXA,U/A,IA,UHA
સ	2nt	CLOSE 10d1
		CLGSE IGU2

```
H (GRACHIGO), DE, ARSCACLD)) BUTU 30
BIBA SACLD
                                                                                                                                                                                                                                                                                                                                                                                J.IX=IXJX+IT
A(IXJX)=A(IXJX) - (A(IX,I)*A(,IJX))
                                                                                                                                         CDN11NDE
1F (ARSCRIGA) 1 F. 0. 0) RETURN
I LEJENA (J-2)
TEFBAX-J
                                                                                                                                                                                                                                                                                                                                                                                                               R(IX)=B(IX) -- (R(J) +A(IXJ))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60 80 K=1+J
H(TR)=B(IB)=6(IA)*B(IC)
IA=IA=N
(C=IC=)
CHEROUTAN STAGONICAD INDICATION
                                                                                                                                                                                                                                                                     SAVE:8 (THAX)
B (THAX)=R(J)
B (J)=SAVE/BIBA
F (L, F R, N) G010 70
IGS=N# (J-1)
NU 63 IX=I)*N
IXJ=IGS*IX
                                                                                                                                                                                                     12=1(+1)
SAVE=4(1)
A(11)=A(12)
A(12)=SAVE
A(11)=A(11)/BIGA
                                                                                                                                                                                                                                                                                                                                                           GD 60 JX=JY+N
fXJX=N+(JX-1)+IX
                     19 : N
Ito 25 J. 1948
17 : 181
J.C. J.G. 1883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EO 90 J=1+NY
1A=17-J
1B=N-J
fC=N
                                                                                     Mal 1 (4) (b)
                                                                                                                                                                                  10 50 K=JIN
                                                                                                                                                                                                                                                                                                                                                                                                      CONTINUE
                                                                                                1.1.1.1.1.1
                                                                                                                                                                                                                                                                                                                                                  T=.1-JX
                                                               HI SA SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         333
                                                                                                                                          3
                                                                                                                                                                                                                                                             Ĵ.
                                                                                                                                                                                                                                                                                                                                                                                                                          392
                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                  B-133
```

13:56:12 :9 MAR, 1984 ROCKET REDUCTION PASS #1 - STMO

PACE

```
HP=SNG (GRATE (REFUGLE (HRL))/(READRE (HRL))))
WRITE (IGU2) HBL, XX, YY, UX, UY, TP, UT, FFL, F

1F (IN SW.ER, 1) BACKSPACE IOU1
KEAS (IGU1, END=99) H, F, XX, YY, UX, UY, T, UY
                                                                                          & ADOUGH FENDESSYNGE (XXXXX) DUX UNA COUL
II SNOL (GRACK ((REXBILE (H)) / (KEXUBLE (H))))
FEORE, ELEXIDADIO (O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                F (KSW, EQ. 1) 50TO 10Z
If=SNUL (GRAT# ((RF*NBLE (H)) / (RE+NBLE (H))))
F (F, NE, 999, 9, AND, FP, NE, 959, 9) 50TO 10S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MALL COULD HEXXEN'S UX OUT THUS PROLIGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OPEN TOUS, TAPES OUT FLEN-80, ATT="L
OFEN TOUS, TAPES FLEN-36
RETURN
                                                                                                                                                 RETECTIONS) HOSKO (YOUXOUYO OUTOPELOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fU= (1+TP) /2.
PRSEG=PFL= ((HI-HP) / (SNGL(PL)±TU))
                                                                                                                                                                                                                          F CCH - HBLD , L.E. 3000, ) 6010 101
                                                                                                                                                                                                                                                                                                               F (PR. 61, 99.) 6010-369
FF = ALUG 10 (PBL)
                                                                                                                                                                                    FORM. EUROGOFO TOL
SUBROULINE ENESCON
INCLUDE THATAS
THE 1959, 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WSL 6=999.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60 fg 108
CLUSE 1004
CLUSE 1602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PELFFRELB
                                                                                                                                                                                                                                                              6.662. 18
                                                                                                                                                                                                                                                                                B1 = 9992.9
                                                                                                                                                                                                                                                                                                                                                      30.00
                                                                                                                                                                                                                                                                                                  6.444.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          50 0 107
                                                                                                                                                                                                         HI SME
                                                                           N SMao
                                                                                                                                                                                                                                             SELEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #H=d+
                                                                                                                                                                                                                                                                                                                    767
                                                                                                                                                                                                                                                                                                                                                                       201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    707
                                                                                               3
                                                                                                                                                                                                                                                                                                                                                                                                                                                               BO1
                                                                                                                                                                                       3
```

```
WELLE CHUSSED CHETER (D. L. 2.3) (STATIONID) RUCK FINE (THEE)
                                                                                                                                                                                                                                                                                                                                                                                         WRITE COOLSE OFFICE (1) STORY ON THE STREET
                                                                                                                                                                                                                                                                                                                                                                                                                         HONTH-FERFISONGE, SONGE
HONDOFF, FREE SONGE, SONGE
HONDOFF CTTZ TEST NUMBER 15X+282+71X+1562/1X+64+72
TX+84+1477+1 SUPER LUNT FWN T-82+81)
SCHOOL FSCHOS TEST FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE FOR THE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REALICIOU2. ENI=99) HB. XB. YB. UXA. UYA. (B. UTB. PR. FB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KEAD(IUU2)HAFAAFYAFUXAFUYAFYAFUTAFFAFFA
JF(H4.11.1.1.)GDIO 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IF (HS.NE.HD) GOTO 102
CALL GUTFUT (HS.XB.YB.TB.UFB.FB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HS::AIN1 (HAZ1666.0) *1.066.0+HIN1
IF (HS: GT.HA) G010 103
HS::HS+HINT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CALL GUIFUT GISTALYTY FOURPY)
HS=HS+HINT
GOTO 100
SUPPLUIT (NE UNENTE O CRUCE LEME)
                                                                                                                                                                                                                                                                                                                                                     HOM THE LEGINGE SONIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 I = VALUE (RAT, 1A, FR)
II= VALUE (RAT, FI)A,U)B)
==VALUE (RAT, FA, FB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F (MS, 6E, MR) 60 f0 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALTUNTES-TEUNNT
TE (NSW.NE.2)60FD 50
SPININTESTNIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NEVALUE (RATAYAYY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X=VALUE (RATIKAIXB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     36 (HS-HB) / (HB-HB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     - VALUE (KALLEALE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    THO SCINITION
                                                 The tone for the ST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HB=HB*CON2
                                                                                                                                                                                                                                                       PINI- 1000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HA-HARCON2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HS=HS+HINI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4.11.= 9.9.9.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NSW-NSW+1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EOU 103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JTA=UTE
                                                                                                                                                        1.11210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BHENST
                                                                                                                                                                                            XH=XH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A=YB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A=1F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ¥.1−₩.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HOHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ::01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $
```

PAGE

ROCKET REDUCTION PASS #1 - ONEKILO

13:56:49 29 MAR, 1984

```
IF (HS. LT. 20060, 0) RETURN
IF (HS. LT. 45646, 66. AND, CONI, NE. 1) RETURN
WRJ TE (INII, 1) HS. RRNII (DIR), RRNII (SPD), 1EMP, TC, PS, DS, FX, VS, WS
WRJ TE (IOUS, 1) HS, ERND (DIR), RRND (SPD), TEMP, TC, PS, DS, FX, VS, WS
FORMAT (1X, 17, 216, 2FB, 2, 2F9, 4, 2FB, 2, F6, 3)
SHARDHI ENE, DUTEUT GISEKKERETE MEETINEVEREN SEELSEN SO
                                                               KENDO) - ATME (X + STIDN (0, 5+X))
                                                                                                                              11 (Grift, Nr. 1999) SFD+SFD+CaNa
FS -9, 959959D2
BS+9, 959999D2
                                                                                                                                                                                                               WS=.999
TECTENF.NE.999.) GUTO 101
                  TNCLUBE TRATOST
BODIETE EKECTSTOR I SEES
                                                                                                 HIK-WHIK (XX+11)
                                                                                                                 SPIN MSPBCKKERO
                                                                                                                                                                                                                                                             IMPUDINESSY. 99
                                                                                                                                                                                                                                                                                                                                                                                                                                          FS=9.9899902
                                                                                                                                                                                                                                             1EMP=599.99
                                                                                                                                                                                                ****** ** *
                                                                                                                                                                               651665:50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YIP=TT
Return
End
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1SE-HS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KIFEXX
                                                                                                                                                                                                                                                                                                                                                     30.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                          . . 4
                                                                                                                                                                                                                                                                             101
```

B-137

13:57:19

-	+ Uning F (' ' + 1542/13, 64+ ' / ' ' + 12+13, 64+14/
*	PAIL TEST NUMBER 1.5827
*	** ASST NEW THREE ** 1249 Z15 Z15 Z15 Z26 Z25 Z36 Z35 **
*	270 275 280 285 290
vî.	
	WESTE (1003) 12 STA (100 II) FOUNT IME, 100 MANTH, ITR,
*	ISONNE, SONGE, ID FFE
	REWIND COUL
	NŘE(S=0
99.	NEGD (100 C) HIS 10 O HS 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1
!	NRECS - NRECS + 1
	6010 100
011	BACKSPACE IDUS
	READ CHUZ) HS+X+X+X+X+X+X
,	H=HS -AMOD (HS, 1000.0)
	DO 120 I=1.NREUS
-	HSP=HS
	The F
	BALKSPACE IOU2
	BACNSPACE 1002
!	READ(IGU2,END=150)HS,X,X,X,X,Y,Y,X
	JF (HS. GT. 20000.) GUTU 1.60
- 557	IF (H. 61. HSP. 0K. H. LT. HS) 6010 120
	KA (10≠ (H-HS) / (HSP-HS)
B	VIN1=599. 9
-1	TF (), NE, 999, 9, AND, TP, NE, 999, 9) TINTERATION (TP-1) +T
3	KK#100
8	1F (F3NT, NE, 999, 9) NN=11NT-206, 0
	. IF (KK.LE.O.GR.K.Gf.100) KK=100
	Pit 130 N=1+50
130	ICf(K)#" "
	No. 140 Natio0,5
140	CALL FUTC(ICT/K,1R.)
	CALL PODC(IC)+NV-1R1)
:	WRITE (16U3,5) H, ICf
791	H=H=) 0,000.0
	60/0 125
120	CUNTINOE
150	REWIND IGUZ
	T I I I I I I I I I I I I I I I I I I I
	END

SUBMUTURE FUNCHOUSED BY UNITER TO STAND OF THE CO. INCLUDE TO STANDS.

į

CUSECULE OF CUMPAYZ

TOMBOTES XX Y AND Z FROM 627 EL AND PARIO AZIADIH AND ELEVATION ADST DE IN RADIANS, KANGE ADST BE IN YAKUS

INGLUIL "BATAS" LONDONZZZZRAN FEL BODIEL PRECISION DRIVATZZA FRZAT

CURVERT KANDE OF METERS AND PERFORM SINGLE TO DOUBLE CONVERSIONS

K-Ka, 7144 166 K-1186 E (K) 11261-1186 E (267) ke/al-Ke-fizal

LALCIN ATE Z

ZESNOL (BSOMT (NEZAT##ZEFFLK##ZEZ, OROEDBLRENFZAT# BSIN(DBLE(EL.).) -KE)

CURRECT ELEVATION ANGLE FOR EARTH'S CURVE

ED-FL4 ((Z# (DDS (EL) /SIN (EL)))/SNGL (2, 2#RE))

CALCULATE X & Y

.X=K&LUS (EU) &SIN (AL) Y=K&CUS (EU) &CUS (AL) RETURN ENO

B-139

FACE

SUBLIGHT IN DRAVER CONTINUE GRAVITY FACTOR UNITABLE BY A LATION OF GOVERNMENT OF GRAVITY FACTOR OF CONTINUE TRANSPORT OF CONTINUE TR

* 2 ·	SUBMITTON COMPESS CIFT, THEFT CALFINERS CHARMAN HERALMON INFORMATION OF SUBMITTON SALVAN AND THE COMPENSATION OF SALVAN AND THE CALFORD AND AND THE CALFORD AND AND THE CALFOR
¥	INCLUM TRACES. (IF N 47 THT STANTENET FOR SECTION FROM SECTION SECTIO
**	READIG) (A. [=1,2), J. KAMINUAT, KAM[NAUNIH, KAMINITAK) K. KAMINITAE, (A. [=1,1,7)
6. 8.	LLDSE 4 Rd 96 J=1,441 HFIGHT(I)=0,0
,	. 1.1.1 NN [K-1 . 1-0
	EU 100 I = 1,1000 Kr. Altitut : E ND= 1010 Z+H2+UX+U\+UX2+U\ 2+1+U\2.
001 191	CUNITNUE: NIX=1-1
į	BACKSFACE IOUT BACKSFACE IOUT READ(IOUT) Z.H2.VX.VY.UX2.UY2.F.Uf2
•	HALNSFACE 1001 BACKSPACE 1001
	READ(10U1)Z1+HZ+VX+VY+UX2+UY2+T1+U12 KTX=KTX-1
201 B-1	HS=4IN (2-AhUD(2-11000.0)) IF (2-1.1.4)5010 104
41	HS=HS+256. 60f0 102
104	
*	TORAGICALITIN, a k a TEMPERATURE COMERRISON k k m'// TROCKE SONNE "24X", "RAWINSONDE") THAT A TORAGICALITIN A TORAGICAL SONDE
٠ *	FORMAT(" TEST NBR ",3A2/" ROCKET SUFER LOKI DAFASONDE FWN-", A2-61)
:	INTERAMINITAE/1000 INTERNUT (RAMINITAE) 1000//100 INTERNUT (RAMINITAE) 100//10
*	INCEMBRICKHWINTINF (10) MARTE (ING) 65 (STATIONING) (I=1,15), IHI, IHD, IMI, IND, RAWINNA), MAI AFGRAWINGONIH), RAWINGER
٠	FORMATOLY SSAGES SXAGII 1 - 12 SXAGA 14) WRITE (1003) 22 KUCK (10E) LWA CAON (H. ITK
7	FORMA (12,644, 2.,14,12,64,14//). WRT FE (1003,8)
*	FORMALC ALTITUDE HAY, CEMPERATURE INFOREES C'Z HETERS ROCKET KAWINSONUE, UTFFERENCE"Z)
	1=N.1X (IPEN 57')PF1 = (ABUG16' + A1) = 'R' +1,EN=56
/01	KITAO (SEENU 198) HGT (1787 KFT) TAFT (1788 KFT) KEKAN KENTAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KEKAN KENTAN K
601	LF (HS. GE. Z. AND. HS. L. F. Z.) GOTO T.L. 7: 7:

II CLARE 999 GANDA CLANFA 997 DEGLIO DES IF (HEIGHT (1), G), 36666, 16010-216 60-201-JJ=1, KNTR 1F (ABS (THPDIF (JJ)), L), 2, 50) 6010-205 READOLD ZUEILLEUXEUNEUXZEUN ZEILU Z WRITE (1003) 9) HS) AT IMPLY BIFF FINNA F(1X) 17/F16, 2/F11, 2/F12, 1) (F(HS) F(1/2000), 0) 60 F0 F16 48=113*256, IF (HS. L.f. 30000, 0) GBTB 107 *EWIND 1 PRL=RPRS (JJ) 16L=RS FMP (JJ) +273, 15 RE FURN END D CLEB. COGOTO 98 SELECT BASELINE HBL=HEIGHT(JJ) STAF (J) =A THEDTF (J) =DTFF HRL=HEIGHT (1) # IGHT (.)) =HS Riks (J) =RPK1 Knik= j 6.66=31II 6 . 665= 19 BL=992.9 601 1109 CONTINUE 350T KE FURN 122 R-142 **917** 300 205 205 77

13:58:23 29 HAR, 1984 RUCKET REDUCTION PASS #1 - COMP RANIN

PAGE

* R('.', IME) * R('.', IME) C INTEGER RAWINTIME, RAWINDAY, RAWINVEAR BEO: HETCH TALL RAMINDAY, RAWINMONTH, ROMINVEAR	INCLUDE "DATAS" DATA HEIGHT, TMPDIF/82+0.0/ C	*	IN: = MOD (RAWINITHE, 180) WRITE (10U3, 6) (STATIONID(I), I=1,15), MNTAB (RAWINNONTH), RAWINYEAR FORMATIC(IX, 15A2, 5X, 411, "Z ", IZ, 1X, A FORMATIC(IOU3, 7) ROCKTIME, 1DAY, MONTH, IY FORMATIC(IOU3, 7) ROCKTIME, 1DAY, MONTH, IY WRITE (10U3, A4, "Z", I4, 1X, A4, I4//) WRITE (10U3, A4) "Z", I4, 1X, A4, I4//) FORMATIC(IX, A4, "Z", I4, 1X, A4, I4//)	C	DO 120 I=1,1000 120 READ(10U1,END=130)x,x,x,x,x,x,x 130 KIX=IC BACKSPACE 10U1 BACKSPACE 10U1 READ(10U1)Z,X,X,X,X,X,X,X	J=1 DO 140 [=1,KIX EACKSPACE 10U1 BACKSPACE 10U1 READ(10!1) Z1,X,X,X,X,X,T1,X IF (T. GE. 3990R. 71.GE. 999.) BOTO 131 IF (2. GT. HEIGHT (J).OR.HEIGHT (J).GE.ZI) RAT=(2-HEIGHT (J)./(2-ZI) A=T-RAT*(T-TI)-273.15	12:55:27 9 JAN, 1984 ROCKET REDUCTION - COMP RAWIN

1

!

	WRITE(10U3, 9) HEIGHT(J), A, RSTMP(J), TMPDIF(J)	
6	FORMAT(1X, I7, F10, 2, F11, 2, F12, 1)	
133	IF (HEIGHT (J), GE, 21) 60T0 131	•
,	1+1=1	
4	IF (J. GT. 41. OR. HEIGHT (J). EG. 0. 0) GOTO 150	
Ja	G0TO 132	
5 131	2=71	
8	13.1	•
	CONTINUE	
<u>.</u>		
1 NO	X-1.	
!		
155	A=0.0	
	DO 160 1=K, KK	:
	IF (HEIGHT (1), EQ. 0, 0) 60TO 999	
160	A=A+DBS(TMDDIF(1))	
•	D#0/07	
	T. 2. 5) GOTO 170	
1 1	HBL=HEIGHT (X)	
	TBL=RSTMP(K)+273.15	
	PBL-RPRS(K)	
	REWIND IOUI	
	RETURN	
179	大 <u>大</u> 大十	
	IF (KK, LE, 41) 8010 155	;
999	HBL=MEIGHT(1)	
!	PBL=TBL=999.9	
	1001	
: -	AETURA CONTRACTOR CONT	
14		
4		
i		

```
CALL (IME (CLOCK) IEN)
UKLIE (TOUS) 10 IDTYPE (STALIONI), TOMAY (2) (MNIARCIONAY (2)), TODAY (3), CLOCK
FURMAT ("I FEST NUMBER: ", 3A2," ASCENT NUMBER: ", 2A2, 94, 15A2, 94,
"ROW DATE ", 12,13,444,14," RUN 11ME ", 12,"; ", 12,"; ", 12)
                                                                                                                             HIST MTS',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F C OOG, EQ. 3)WR1}E (1003+2) (+A+E+R+Z+1H1+1H1+1S)+P)+DA+PE+PR+PZ
FORMAT (1H -+F10+2+2F10+3+2F12+2+314+5F12+2)
Pre-CESS-OALUES
                                                                                                                                                                                                                                                                                                                                                                    WRITE(IGU3,9) EGCKTIAE, IDAY, ADNIH, IYR, ISONDE, SONDE
FIRKAT(13,64,<sup>7</sup>2 °,12,13,13,44,14,80X) SUPER LOKI DAFASONNE PWN-°
                                                                                                                               H ELEVATION RNG MFS HIG AZIGUTH ELEVATION 1/2/4 TRANGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                            FORMAT (26X1. HSS TRACKING DATA', 51X1 DIFFERINCE/MINUTE')
                 BURS 1.6.E.K. CHECKURT ON PRINTER
AND WRITES 1.FIMP.6.E. AND 2 ON GRIVE I IN BINARY
INTEGER TOBAY (3) (CLOCK (3)
INCLODE TRATAST
                                                                                                                               THE SEC. AZEMUTH ELEVATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       READ (TOUZ, FND=113) T. TMF. A, E, R
SUBSKULLINE CHKINI (KOLA FLIDE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IF (Z.1 f. 19066, ) 6010 113
                                                                                                                                                   THE MEN SECTIBET TIME
                                                                                                                                                                                            TECTOUS NET STRONG TO CALL THE COUNTY TEXT
                                                                                                                                                                                                                                                                                                                                                  IF COUS.NE. 3) 60 fg 126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HOLD=AMOD (1,3666, 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (S) = AMOD (HOLD) 60. (c)
                                                                                                          THE PERMITANTAL PER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [F(I, E0, 1)601U 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6E=0.0
fik=0.0
fd 112 I=1,1000
fiz=0.0
                                                                                                                                                                                                                                                                                                                                                                                                                                       WRITE (TOUS, 11)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTE DELIAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AL=A/57, 29578
EL=E/57, 29578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (#1 =HGL 0760, 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WRITE (1003,3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CALL COMPAYZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YT# (17-7)=70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Res (E-Ei) ADX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DA = (A-A1) * DX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IN= (R-R) * DX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,002E/1=1H1
                                                                                                                                                                           (7.3mm).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                117 = 60 /III
                                                                                                                               TREMOTE !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CUNT INUE
                                                                                                                                                                                                                                                                                                                                                                                                                 A21A17)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1(-)=10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   na=0. c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1=1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1-1-E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          111
                                                                                                                                                                                                                                                                                     3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ř-145
```

13:58:59 29 MAR, 1984 KOCKET REDUCTION PASS #1 - CM-CKOUT

PAGE

13:58:59 29 MAR, 1984 KUCKET REDUCTION PASS #1 - CHECKGUT

PAGE

B-146

21:2 WELLE LINE LENPANAMI Z ON LAFY WELLECTOUD GETHPANAMI Z FUNCTON TOE COMBRAY FINDEX)
(NIT GROUPEX+1) Z

TEUTNI - CINDEX+1) Z

TOE TOE TOE COMEX+2) Z

TO CODE CINDEX+3) Z

TO CODE CINDEX+3) Z

TO CODE CINDEX+3 Z

TO TOE TOE TOE TOE TOE TOEN

TO TOE TOE TOE TOE TOE TOEN

TOE TOEN

PASE

13:59:50 39 MAR, 1984

SUFNOUTER, FULCOCHARACETRUEXELVALDE)
TRUER COMECELOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXECOZO
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEODECINEXE
TEOD

PAGE

イイストのでは、Manager 1975年11日

B-149

1771

FUNCTION WHIR CKATY)
11 CXX.R. 6. CO GOLD 100
12 CYX.L. 6. CO GOLD 100
13 CYX.L. 1. 6. CO MULK= \$50.0
14 CYX.L. 1. 6. CO MULK= \$60.0
15 CYX.L. 1. 6. CO MULK= \$60.0
16 CYX.L. 1. 6. CO MULK= \$60.0
17 CYX.L. 1. 6. CO MULK= \$60.0
18 CXX.GI. 6. CO MULK= \$60.0
19 CXX.GI. 6. CO MULK= \$60.0
19 CXX.GI. 6. CO MULK= \$60.0
19 CXX.GI. 6. CO MULK= \$60.0
10 CXX.GI. 6. CO MULK= \$60.0
10 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK= \$60.0
11 CXX.GI. 6. CO MULK=

していることのできれていることであります。

B-150

ROCS 3

ROCKET REDUCTION PASS #1 - WSPD

14: 0:13 29 MAK: 1984

FAUL

EUMOLIUM MORTHCCOPO World (Debotel) Debools TECCIETI DEPOSITIES (OF 4, 999, 9) WSPIES99, KETUKA EMH

1.46£

TOTAL TOTAL SAFETY (N. 1941)

UGLIU (1956-1954)

UR GALTO, 1955-540 FRANCES SEVERAL 1957-579

IR GALTO, 1957-540 FRANCES IN 1957-99 (M. 1957-9)

KE HECH

FROM

. . .

B-151

.615+, 593+, 572+,551+,533+,518+,502+,487/ Defa CTU/7,56+6, 04+4,93+4,13+3,48+5,+2,59+2,26+2+1,75+1,57+1,41+ 1,27+1,15+1,04+,936+,68+,42+,766+,718+,673+,629+,592+,559+,528+ 1.07+1.04+.946+.944+.877+.808+.872+.785+.753+.722+.694+.666+.64 11,83E-10,9,6E-10,9,13E-10,6,9EE-10,5,9EE-10,5,17E-10,4,53E-10,5,94E-10,5,49E-10,5,49E-10,5,6EE-10,6,5,6EE-10,5,69E-10,5,69E-10,5,69E-10,5,69E-10,5,69E-10,1,69EE-10,1,41E-10,1,31E-10,1,23E-10, 1.1AF-10,).09E-10,1.03E-10,8.76F-11,9.24F-11,8.79E-11,8.35E-11, .95E-11,7.53E-11,7.18E-11,6.85E-11,6.52E-11,6.22E-11,5.96E-11, 10.4+8.94+7.7+6.69+5.87+5.13+4.57+4.1+3.66+3.29+2.98+2.73+2.51+ . 9031. 8681. 8571. 8041. 7751. 7191. 7241. 71. 5771. 5561. 6351. 6161. 5971 . 51, 4761, 4521, 431, 411, 3921, 3721, 3551, 3411, 3231, 3111, 2981, 2051, 2741, 2631, 2631, 2531, 2431, 2351, 2251, 2181, 211, 2031, 1971, 1911, 1851, 187 4,25E-11,4,09E-11,3,94E-11,3,81E-11,3,69E-11,3,58E-11, 2, 33, 2, 17, 2, 03, 1, 9, 1, 77, 1, 67, 1, 57, 1, 48, 1, 4, 1, 33, 1, 26, 1, 2, 1, 14, 10, 6+8, 9,777, 7+6, 69+5, 93+5, 27+4, 72+4, 27+3, 84+3, 51+3, 23+2, 95+ 2-72+2, 51+2, 342+2, 184+2, 054+1, 935+1, 858+1, 728+1, 627+1, 545+ 1+469+1, 393+1, 33+1, 27+1, 27+1, 16+1, 111+1, 065+1, 019+, 978+, 94+ 5. 68t-11,5. 44E-11,5. 22E-11,5. E-11,4. 79E-11,4. 6E-11,4. 42E-11, 41 6. 631 414. 621 - 414. 61F -414. 531 414. 511 41 MAIA DICZ18, S1E-10, 14, 63E-10, UALA CTC/23,2,18,4,15,0,12,5, . 589 . 5654 . 554 . 535/ UNIA BIC/12,774

AFCCOD FRECCIOFORCAD FINGCAD FCFFCSD

DELETL "RUGNE FABLE, PH"
GFEN 1, "KOCKE VABLE, PH", ATT="L", LEN=208
WRITE(1) (AIC(I), BTC(I), CTC(I), DTC(I), I=1,51)
WRITE(1) (CFD(I), I=1,51)
CL(ISE 1)
STOP
ENI

B-152

PASS 2

1.0 Module Description

1.1 Main Routine

Initializes the various control and conversion constants, and controls the flow of data through the subroutines.

1.2 Subroutine ETFORM

Formats data for entry into the high altitude data formatting routine to develop data for archiving and publication.

1.3 Subroutine CODIT

Final formatting and output routine for data developed in Subroutine ETFORM.

1.4 Subroutine RDRAWIN

Reads co-rawinsonde data for input into the archiving and publication formatting program.

1.5 Subroutine ROCOB

Encodes all rocketsonde parameters into the international ROCOB code and stores data for later transmission.

1.6 Subroutine MANDL

Mandatory data level inserter called by ROCOB to place data levels into the proper place in the code.

1.7 Subroutine LEFTZERO

Inserts leading zeros on integer numbers when required for output.

1.8 Subroutine TSIGN

Converts a decimal integer to a positive or negative character.

1.9 Function VALUE

Interpolates for a value or sets missing data to nines.

1.10 Function WDIR

Computes wind direction in meteorological polar coordinate system.

1.11 Function WSPD

Computes wind velocity using velocity components as input data.

2.0 MATHEMATICAL DESCRIPTION

2.1 Main Routine

None

2.2 Subroutine ETFORM

2.2.1 Conversion of Baseline Height to Nearest Geopotential Decameter

$$H = \{ [GRAT \cdot (Re \cdot Z)/(Re + Z)] + 5 \} / 10$$

where

H = baseline height, geopotential decameters

GRAT = ratio of local acceleration of gravity to acceleration of gravity at 45 degrees latitude

Re = mean radius of the Earth, meters

Z = geometric height, meters

5 = rounding factor

10 = converts meters to decameters

2.2.2 Computation of Baseline Pressure

$$P = (10^{PL} \cdot 100) + 0.5$$

where

P = baseline pressure

PL = log of baseline pressure

100 = formats pressure for output

0.5 = rounding factor

2.2.3 Computation of an Interpolation Ratio for Significant Level Checking

$$K = (H - HB)/(HA - HB)$$

where

K = interpolation ratio

H = height of level being checked

HA = height, upper level

HB = height, lower level

2.2.4 Interpolation for Significant Level Test Temperature

$$ST = K \cdot (TA - TB) + TB$$

where ST = significant level test temperature, degrees Kelvin

K = interpolation ratio

TA = temperature, upper level, degrees Kelvin

TB = temperature, lower level, degrees Kelvin

2.2.5 Computation of an Interpolation Ratio for Obtaining Even Decameter Data

$$K = (H1 - HB)/(HA - HB)$$

where K = interpolation ratio

H1 = output height, meters

HA = height, lower level, meters

HB = height, upper level, meters

2.2.6 Conversion of Output Height to Decameters

H = H1/10

where H = height, decameters

H1 = height, meters

10 = conversion factor

2.2.7 Interpolation for Output Parameters

$$X = K \cdot (XA - XB) + XB$$

$$Y = K \cdot (YA - YB) + YB$$

$$T = K \cdot (TA - TB) + TB$$

$$P = K \cdot (PA - PB) + PB$$

$$F = K \cdot (FA - FB) + FB$$

$$UX = K \cdot (UXA - UXB) + UXB$$

$$UY = K \cdot (UYA - UYB) + UYB$$

where X = output east-west position component

XA = lower level east-west position component

XB = upper level east-west position component

Y = output north-south position component

YA = lower level north-south position component

YB = upper level north-south position component

T = output temperature

TA = lower level temperature

TB = upper level temperature

P = output log of pressure

PA = lower level log of pressure

PB = upper level log of pressure

F = output fall rate

FA = lower level fall rate

FB = upper level fall rate

UX = output uncorrected east-west position component

UXA = lower level uncorrected east-west position component

UXB = upper level uncorrected east-west position component

UY = output uncorrected north-south position component

UYA = lower level uncorrected north-south position component

UYB = upper level uncorrected north-south position component

K = interpolation ratio

2.2.8 Computation of an Interpolation Ratio for Obtaining the Constant Pressure Output Data

K = (P - PB)/(PA - PB)

where K = interpolation ratio

P = log of pressure, mandatory output levels

PA = log of pressure, lower level

PB = log of pressure, upper level

2.2.9 Interpolation for Height, East-West Position Component, North-South Position Component, Uncorrected East-West Position Component, Uncorrected North-South Position Component, Temperature, Uncorrected Temperature, and Fall Rate

$$X = K \cdot (XA - XB) + XB$$

$$Y = K \cdot (YA - YB) + YB$$

$$T = K \cdot (TA - TB) + TB$$

$$P = K \cdot (PA - PB) + PB$$

$$F = K \cdot (FA - FB) + FB$$

$$UX = K \cdot (UXA - UXB) + UXB$$

$$UY = K \cdot (UYA - UYB) + UYB$$

where

X = output east-west position component

XA = lower level east-west position component

XB = upper level east-west position component

Y = output north-south position component

YA = lower level north-south position component

YB = upper level north-south position component

T = output temperature

TA = lower level temperature

TB = upper level temperature

P = output log of pressure

PA = lower level log of pressure

PB = upper level log of pressure

F = output fall rate

FA = lower level fall rate

FB = upper level fall rate

UX = output uncorrected east-west position component

UXA = lower level uncorrected east-west position component

UXB = upper level uncorrected east-west position component

UY = output uncorrected north-south position component

UYA = lower level uncorrected north-south position component

UYB = upper level uncorrected north-south position component

K = interpolation ratio

2.3 Subroutine CODIT

2.3.1 Computation of Velocity of Sound

$$VS = 331.45 \cdot (T/273.15)^{1/2}$$

where VS = velocity of sound, meters per second

T = temperature, degrees Kelvin

331.45 = speed of sound at zero degree Celsius, meters/second

2.3.2 Computation of Barometric Pressure

$$P = 10^{PL}$$

where P = barometric pressure (millibars)

PL = log of barometric pressure

2.3.3 Computation of Density

$$\varrho = 348.38 \cdot (P/T)$$

where $\varrho = \text{density}$, grams per cubic meter

P = barometric pressure, millibars

T = temperature, degrees Kelvin

348.38 = gas constant for dry air and conversion factors, with pressure in millibars and density in grams/cubic meter

2.4 Subroutine RDRAWIN

None

2.5 Subroutine ROCOB

None

2.6 Subroutine MANDL

None

2.7 Subroutine LEFTZERO

None

2.8 Subroutine TSIGN

None

2.9 Function VALUE

None

2.10 Function WDIR

2.10.1 Computation of Wind Direction

$$D = tan^{-1} (Y/X) \cdot 57.29578$$

If X < 0,

then WDIR = 270 - D

If X > 0,

then WDIR = 90 - D

If X = 0 and $Y \ge 0$

then WDIR = 360

If X = 0 and Y < 0

then WDIR = 180

where WDIR = wind direction, meteorological polar coordinates

D = wind direction, Cartesian coordinates

X = east-west velocity vector

Y = north-south velocity vector

57.29578 = degrees in a radian

2.11 Function WSPD

2.11.1 Computation of Windspeed

$$WSPD = \sqrt{X^2 + Y^2}$$

where WSPD = windspeed

X = east-west velocity vector

Y = north-south velocity vector

3.0 INPUT

Input to Pass 2 is from four sources. First is the scratch file output from Pass 1, second is for the constant altitude data output from Pass 1, third is the options that are input in conversational mode, and fourth is the co-rawinsonde data.

The scratch file is as follows:

Words	Contents
1-2	Altitude, meters
3—4	East-west velocity component, meters/second
5—6	North-south velocity component, meters/second
7—8	Uncorrected east-west velocity component, meters/second
9—10	Uncorrected north-south velocity component, meters/second
11—12	Temperature (degrees K)
13—14	Uncorrected temperature (degrees K)
15—16	Barometric pressure, millibars
17—18	Fall rate, meters/second

Constant Altitude Data

Height	Geometric feet or meters at standard intervals of 1 km, 250 meters, and 1,000 feet
Wind Direction	In degrees from true north. Missing data is shown as 999
Windspeed	In knots or meters/second; calm is 000 and missing is 999
Temperature	In degrees Kelvin
Temperature Correction	In degrees Kelvin
Atmospheric Pressure	Millibars
Atmospheric Density	Grams/cubic meter
Fall Rate	In feet/second or meters/second (determined by height units)
Speed of Sound	In knots or meters/second (determined by height units)
Wind Shear	Seconds ⁻¹

Sample Options Dialogue

rrompt	Operator Input
Output to console or printer (CNS/PRT)	PRT

Co-Rawinsonde Data Format

Control File

Word	Contents
1	Units switch (feet/meters)
2	Winds in feet/second switch
3	Interpolation switch
4	Output device indicator
5	Optical index of refraction units switch
6	Wind shear in knots switch
7—8	Surface wind x component
9—10	Surface wind y component
11—12	Surface wind direction
13—14	Surface windspeed
15	Station number
16	Day
17	Month
18	Year
19—20	Altitude increment (feet)
21	Release time
22—23	Tropopause wind direction (degrees from true north)
24—25	Tropopause time (seconds)
26—27	Tropopause geopotential height (feet)
2829	Tropopause dewpoint (degrees C)
30—31	Tropopause geometric height (feet)
32—33	Tropopause refractive index (optical/N)
34—35	Tropopause pressure (millibars)
36—37	Tropopause temperature (degrees C)
38-39	Tropopause relative humidity (percent)
40-41	Tropopause wind speed (knots/feet/second/meters/second
42—45	Station latitude (double precision) (degrees)
46—47	Termination height (geometric feet)
48—49	Termination pressure (millibars)
50—54	Flight identification
55	Sonde type

Significant File

Words

Contents

1-2	Altitude (feet, geometric)
3	Wind direction (degrees)
4	Windspeed (meters/second)
56	Temperature (degrees C)
78	Dew point (degrees C)
910	Pressure (millibars)
11—12	Refractive index (N units)
13—14	Relative humidity (percent)
	Mandatory File
Words	Contents
1-2	Altitude (feet, geopotential)
3	Wind direction (degrees)
4	Windspeed (meters/second)
56	Temperature (degrees C)
78	Dewpoint (degrees C)
9-10	Pressure (millibars)
11—12	Relative humidity (percent)
	Tabulation File
Words	Contents
1-2	Altitude (feet, geometric)
3-4	Wind direction (degrees)
56	Windspeed (meters/second)
78	Temperature (degrees C)
9-10	Dew point (degrees C)
11-12	Pressure (millibars)
13—14	Relative humidity (percent)
15—16	Absolute humidity (grams/cubic meter
17—18	Density (grams/cubic meter)
19—20	Index of refraction (N)
21-22	Velocity of sound (knots)
23—24	Shear velocity (seconds ⁻¹)
25—26	Vapor pressure (millibars)
27—28	Precipitable water (millimeters)

4.0 OUTPUT

Output consists of the HAMDATA file and the ROCOB file. The first part of the HAMDATA file is as follows:

Words	Contents
1	Height, geometric decameters for the significant and mandatory data levels, geopotential decameters for the constant pressure levels
24	Wind direction (degrees from true north)
5	Wind speed (meters/second)
6	Uncorrected north-south velocity component (meters/second)
7	Uncorrected east-west velocity component (meters/second)
8	North-south velocity component (meters/second)
9	East-west velocity component (meters/second)
10	Fall rate (meters/second)
11	Temperature (degrees C)
12	Temperature (degrees C)
13—15	Barometric pressure (millibars)
16—18	Density (grams/cubic meter)
19	Velocity of sound (meters/second)

The second part of the HAMDATA file consists of the data in the mandatory and significant parts of the co-rawinsonde data and is as follows:

Mandatory File

Words	Contents
1—2	Altitude (feet, geopotential)
3	Wind direction (degrees)
4	Windspeed (knots)
56	Temperature (degrees C)
7—8	Dewpoint (degrees C)
9-10	Pressure (millibars)
11—12	Relative humidity (percent)

Significant File

Words	Contents		
1-2	Altitude (feet)		
3	Wind direction (degrees)		
4	Windspeed (meters/second)		
5—6	Temperature (degrees C)		
7—8	Dewpoint (degrees C)		
9—10	Pressure (millibars)		
11—12	Refractive index (N units)		

The ROCOB file is described in Federal Meteorological Handbook 10 as follows:

ROCKETSONDE MESSAGE CODE

SECTION A - INTRODUCTION

- 1.1 A ROCOB report or a bulletin of ROCOB reports from a land rocketsonde station is identified by M.M.M. = RRXX. The identifier for ROCOB SHIP is SSXX. (The name ROCOB or ROCOB SHIP shall not be included in the report.)
- 1.2 The code form is divided into three sections as follows:

SECTION 1 - Identification data

SECTION 2 - Data for specified geometric altitudes

SECTION 3 - Data for isobaric surfaces (optional)
(Sections 2 and 3 cannot be transmitted as a separate report.)

SECTION B - MESSAGE FORMAT

1.1 FM39.F ROCOB — Upper-level temperature and wind (possibly air density) report from land rocketsonde station.

SECTION 1	$M_{i}M_{i}M_{j}M_{j}$	YYCGg	IIiii	$\mathbf{a_1} \mathbf{e_T} \mathbf{e_T} \mathbf{e_T} \mathbf{r_T} \mathbf{r_T}$	reecm
SECTION 2	$^{ m HHZ}_{ m T}$ TT	ddfff	(9d P 1	P ₁ P ₁)	•
	$^{ m HHZ}_{ m T}$ ТТ	ddfff	(9d P 1	P ₁ P ₁)	

SECTION 3	$\mathbf{^{11Z}T^{T}1^{T}1}$	P ₁ P ₁ h ₁ h ₁ h ₁ h	ddfff
	•	••••	• • • •
	$\mathbf{r}_{1}\mathbf{z}_{\mathbf{T}}\mathbf{r}_{\mathbf{n}}\mathbf{r}_{\mathbf{n}}$	PPhhhh	$d_n d_n f_n f_n f$
	^{22Z} T ^T 1 ^T 1	P ₁ P ₁ h ₁ h ₁ h ₁ h	$d_1d_1f_1f_1f_1$
	• • • •		••••
	22Z _T T _n T _n	$P_n P_n h_n h_n h_n$	$d_n d_n f_n f_n$
	33		••••
	44		••••
	etc.		

SECTION C - DEFINITIONS

1.1 Symbolic form table for land stations

M, M, M, M = RRXX - ROCOB report from a land station

YY = Day of the month (GMT) on which the observation was taken.

 GG_{π} = Time of launch in hours and nearest tens of minutes GMT

MM = Month of year (01 = Jan, 12 = Dec. etc.)

JJJ = Year (980 = 1980, 981 = 1981, etc.)

IIiii = International Index Number of the observing station (IT = Block Nbr and iii = Station Nbr, both given in H.O. Pub. No. 119.)

a = Reason for no report and ground equipment employed (Code Table 1).

 $e_m e_m$ = Type of thermodynamic sensing equipment (Code Table 2).

T = Thermodynamic correction technique (Code Table 3).

r = Type of rocket motor (Code Table 5).

e e = Type of wind sensing equipment (Code Table 6).

- e = Wind correction technique (Code Table 3).
- HH = Altitude, in kilometers, of the level for which data are reported.
- Z_{m} = Character of the temperature reported by TT (Code Table 7).
- TT = Air temperature in whole degrees Celsius at the altitude given by HH. (For a temperature of -570, the coding is TT=57 and Z_T=5.) When temperature is missing, two solidi (//) are reported for TT.
- dd = True direction, in tens of degrees, from which the wind
 is blowing at the altitude given by HH (Code Table 8).
 (See note below fff.)
- = Windspeeds are preferred in meters/sec at the altitude given by HH. If windspeeds are given in knots, 50 will be added to YY.
- NOTE: (1) When wind direction or speed are missing, use solidi for ddfff as appropriate.
 - (2) The thickness of the layer through which wind direction and speed are determined shall be 2 km for both mandatory and significant levels; i.e., 1 km on each side of the altitude reported.
- 9 = Indicator figure for the density group, $9d_{p}^{p}_{1}^{p}_{1}^{p}_{1}$.
- d = Decimal point locator. The number of places to the left of the third significant figure. The decimal point must be so placed as to obtain the actual density in g/m³ by P1^P1^P1.

NOTE: The third significant figure is always included in the value reported for symbol d.

EXAMPLE:

Assume 120 g/m³, the group is coded 90120 (i.e., $d_D = 0$).

Assume 1.20 g/m³, the group is coded 92120 (i.e., $d_p = 2$).

Assume 0.281 g/m³, the group is coded 93281 (i.e., $d_p = 3$).

Assume 0.0788 g/m³, the group is coded 94788 (i.e., $d_p = 4$).

- P₁ P₁ P₁ = Density in gm/m³ rounded to three significant figures at the altitude given by HH.
 - 11 = Indicator figures Standard isobaric surface data follow;

temperature $(Z_T^{T_1T_1} \dots Z_T^{T_nT_n})$ is reported in the same manner as in section 2, pressure $P_1P_1 \dots P_nP_n$) is reported in whole millibars, altitude $(h_1h_1h_1 \dots h_nh_n)$ is reported in geopotential hectometers.

- 22 = Indicator figures Standard isobaric surface data follow; temperature is reported in the same manner as in Section 2, pressure is reported in tenths of a millibar and altitude reported in geopotential hectometers.
- 33 = Indicator used for reporting pressure in <u>hundredths</u> of a millibar and altitude in geopotential hectometers.
- 44 = Indicator used for reporting pressure in thousandths of a millibar and altitude in geopotential hectometers.
- 55 = Indicator used for reporting pressure in ten-thousandths of a millibar and altitude in geopotential hectometers.
- 66 = Indicator used for reporting pressure in <u>hundred-thousandths</u> of a millibar and altitude in geopotential kilometers.
- d₁d₁ = Wind direction in tens of degrees (Code Table 8) at the
 reported isobaric surfaces.
- $f_1f_1f_1$ = Windspeed in meters/sec at the reported isobaric surfaces.

5.0 ALGORITHMS

CAMP PROPERTY OF THE PROPERTY

5.1 Subroutine MANDL

Convert mandatory level pressure to whole number for output in Rocket code using

IPS =
$$(10^{PL(J)} + F1) (10^{JS}/10)$$

where IPS = pressure at mandatory level encoded as a whole number

PL(J) = log of the pressure at the mandatory level being converted to a whole number

F1 = round off factor used to move decimal point; this factor is based on PL(J)

JS = intermediate factor based on the pressure level indicator J which is set by the number of levels processed

If
$$J \ge 31$$
, $JS = 6$
 < 31 , $JS = 5$
 < 26 , $JS = 4$
 < 21 , $JS = 3$
 < 16 , $JS = 2$
 < 10 , $JS = 1$

5.2 Subroutine TSIGN

Convert the tenths value of temperature to a positive or negative character.

The temperature is read as a positive or negative real number. If it is positive the tenths value is converted to a character number. If it is negative the tenths value is converted to a coded character.

iumeric Value	Characte
0	. 0
1	1
2	2
3	3
4	4
5	5
6	6
7	7

Numeric Value	Character
8	8
9	9
- 0	!
-1	J
-2	K
-3	L
-4	M
-5	N
-6	О
-7	P
-8	Q
-9	R

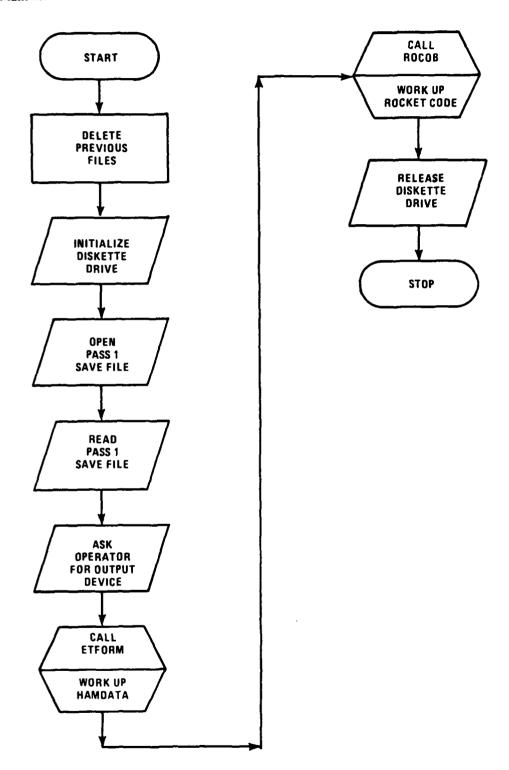
5.3 Subroutine LEFTZERO

Generate an array of single digit numbers from successive divisions of the input integer number. This routine is used to put leading zeros on integer numbers for output formatting.

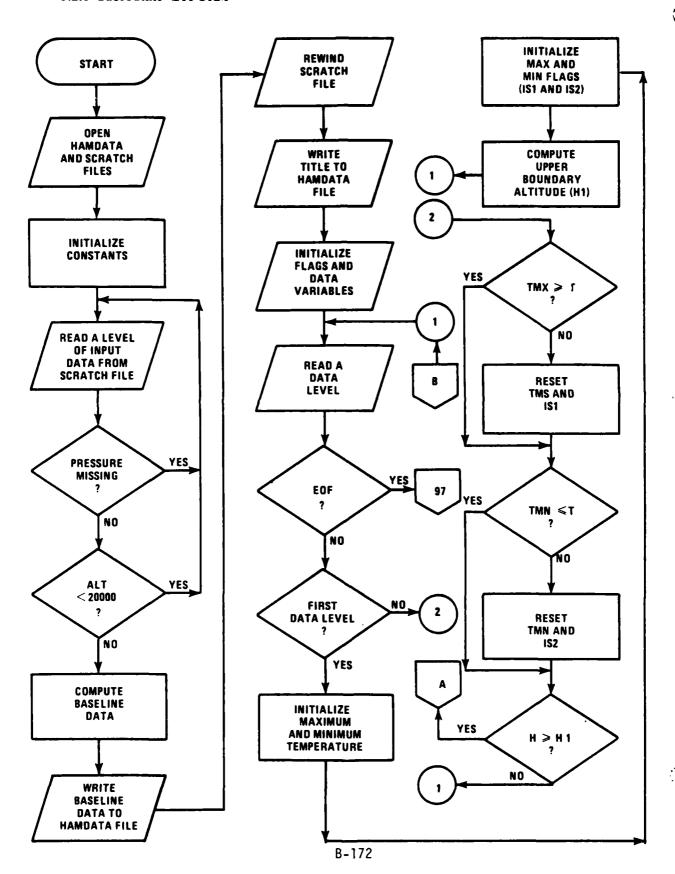
6.0 FLOWCHARTS

See the following pages.

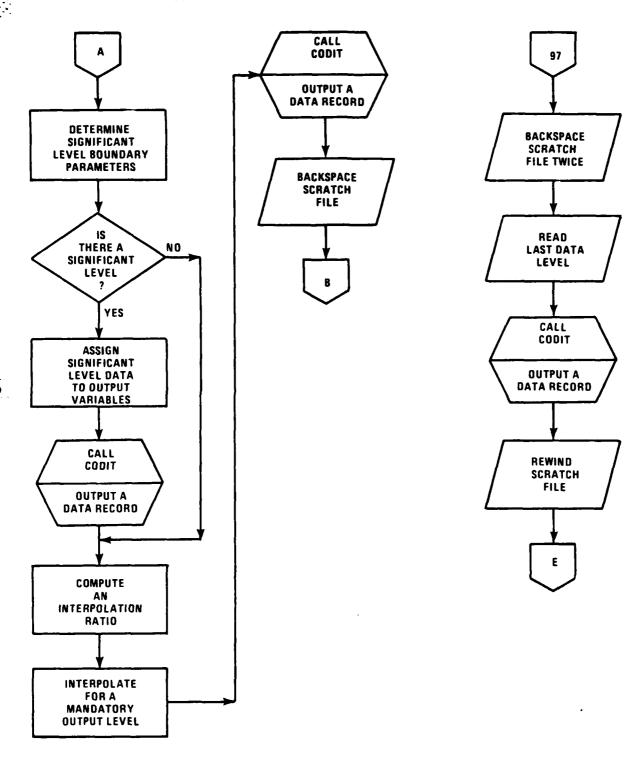
6.1 Main Routine - Pass 2



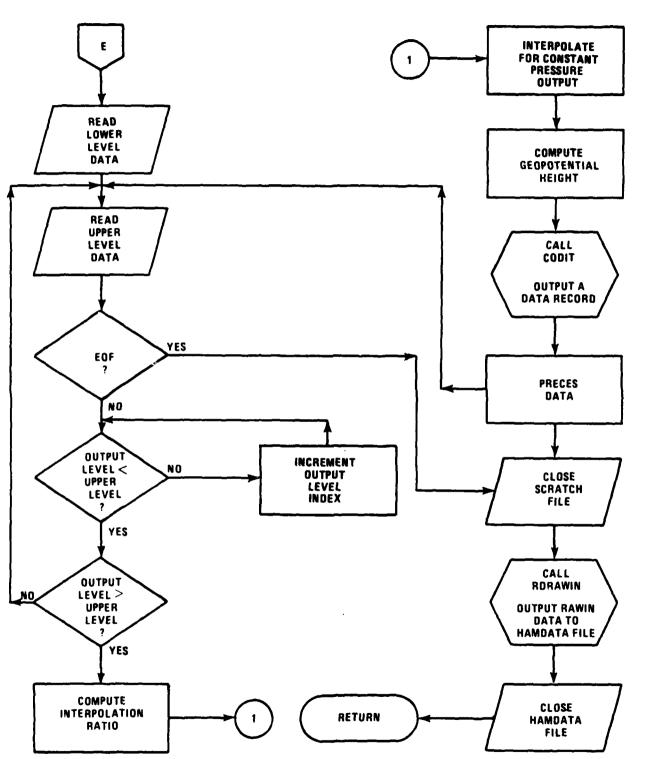
6.2.1 Subroutine ETFORM



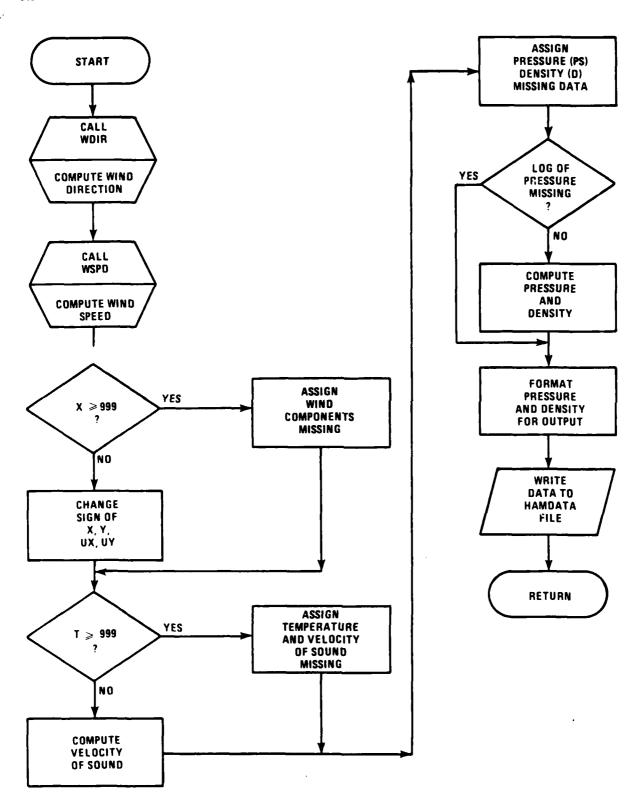
6.2.2 Subroutine ETFORM



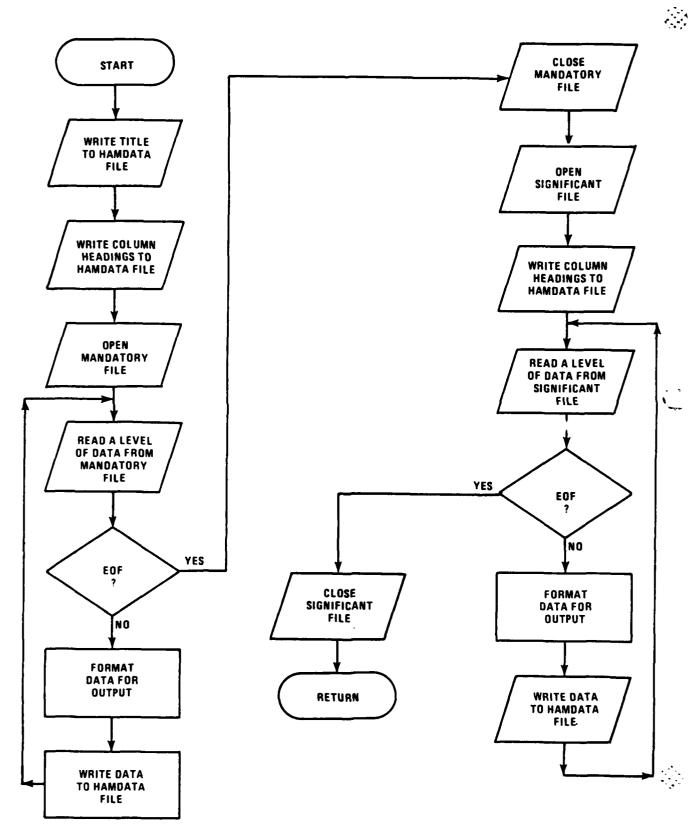
6.2.3 Subroutine ETFORM



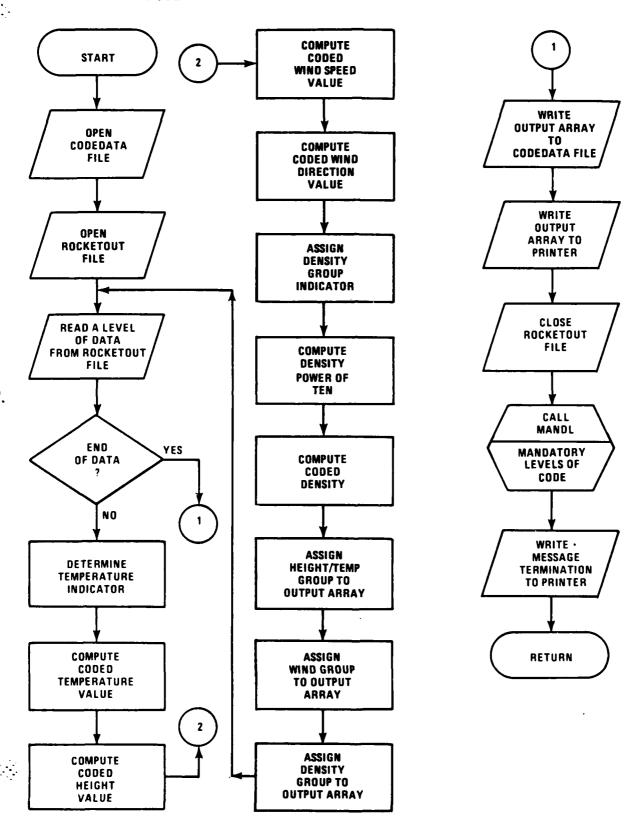
6.3 Subroutine CODIT



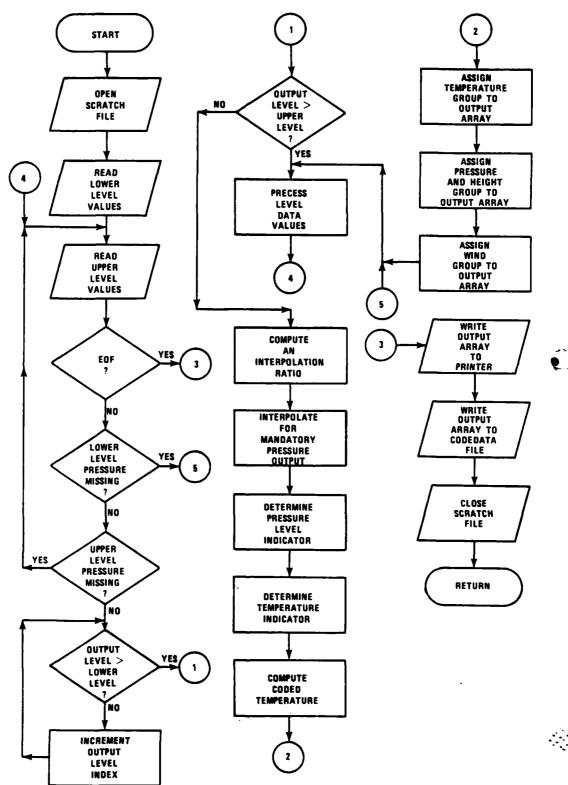
6.4 Subroutine RDRAWIN



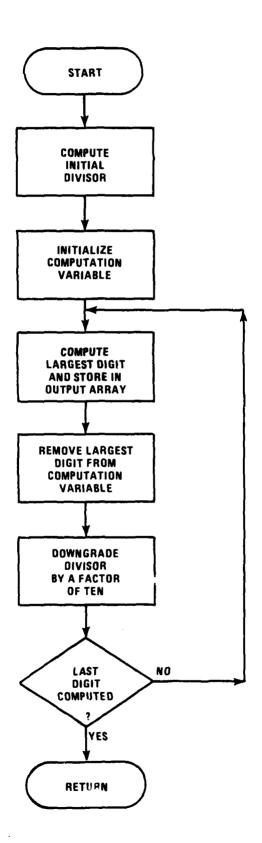
6.5 Subroutine ROCOB



6.6 Subroutine MANDL

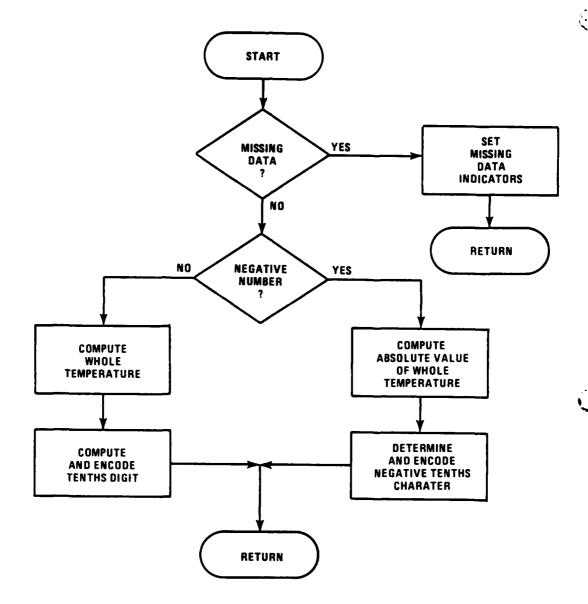


6.7 Subroutine LEFTZERO

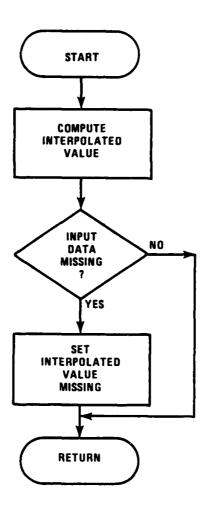


ويؤار والكوي والمناف والمناف والمراوي والمدار والمناف والمناف والمناف والمناف والمناف والمناف والمناف

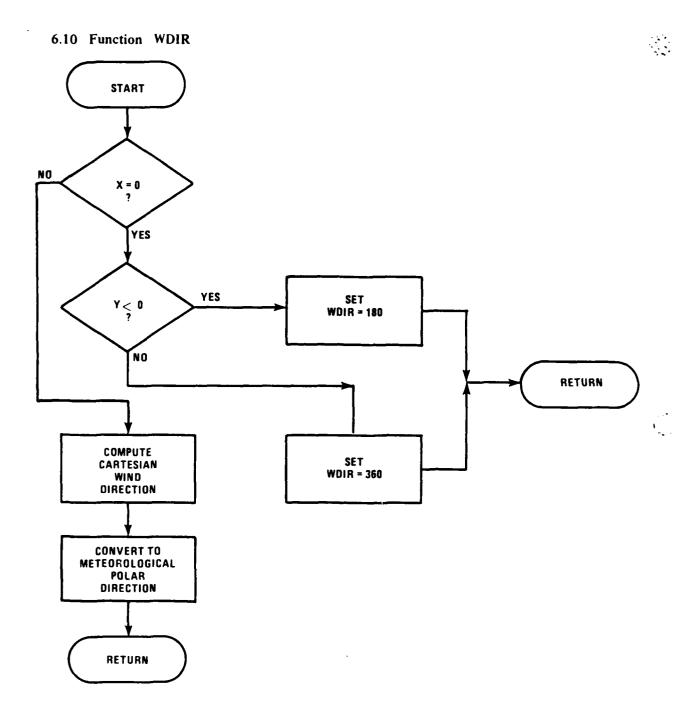
6.8 Subroutine TSIGN



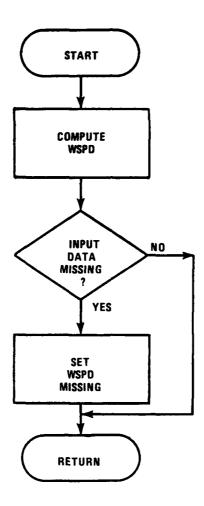
6.9 Function VALUE



والأراري والأوال والأحالا فالكالموالي فالكامول والكامول فالكامول فالمتالي و



6.11 Function WSPD



• 7.0 MATHEMATICAL AND PHYSICAL CONSTANTS

7.1 Main Routine

Log of Mandatory Pressure Levels

LEVEL	50 MB	30 MB	20 MB	10 MB	7 MB
LOG	1.69897	1.47712	1.30102	1.0	0.84509
LEVEL	5 MB	3 MB	2 MB	1 MB	
LOG	0.69897	0.47712	0.30102	0.0	
LEVEL	0.7 MB	0.5 MB	0.4 MB	0.3 MB	
LOG	-0.15490	-0.30102	-0.39794	-0.52287	
LEVEL LOG	0.2 MB -0.699897	0.1 MB -1.0			
LEVEL	0.07 MB	0.05 MB	0.03 MB	0.02 MB	
LOG	-1.15490	-1.30102	-1.52287	-1.69897	
LEVEL LOG	0.01 MB -2.0				
LEVEL	0.007 MB	0.005 MB	0.003 MB	0.002 MB	
LOG	-2.15490	-2.30102	-2.52287	-2.69897	
LEVEL LOG	0.001 MB -3.0				
LEVEL	0.0007 MB	0.0005 MB	0.0003 MB	0.0002 MB	
LOG	-3.15490	-3.30102	-3.52287	-3.69987	
LEVEL LOG	0.0001 MB -4.0				
LEVEL	.0.00007 MB	0.00005 MB	0.00003 MB	0.00002 MB	
LOG	-4.15490	-4.30102	-4.52287	-4.69897	
LEVEL LOG	0.00001 MB -5.0				

7.2	Subrouti	ne ETFORM
	20000	Minimum output altitude, meters
	273.15	Freezing point of water (degrees K)
	1000	Mandatory output interval
	100 10 0.5	Output formatting constants
7.3	Subrouti	ine CODIT
	331.45	Speed of sound at zero degree Celsius, meters/second
	273.15	Freezing point of water (degrees K)
	348.38	Gas constant for dry air with pressure in millibars and density in grams pecubic meter, combined with conversion factors
	10000 1000 10 0.001 0.000009	Output formatting constants
7.4	Subrout	ine RDRAWIN
	0.3048	Number of meters per foot
	0.514792	Converts knots to per second
	10 100	Output formatting constants
7.5	Subrout	ine ROCOB
	60	Octal number used to convert numeric numbers to character numbers
7.6	Subrout	ine MANDL
	10 0.5 0.05 0.005 0.0005 0.00005 0.000005	Constants used to format output data
7.7	Subrout	ine LEFTZERO

B-185

None

7.8 Subroutine TSIGN

None

7.9 Function VALUE

None

7.10 Function WDIR

90 True east, degrees

180 True south, degrees

270 True west, degrees

360 True north, degrees

57.29578 Degrees in a radian

7.11 Function WSPD

None

ATTACHMENT 1 INTERMEDIATE SCRATCH FILE (FROM PASS 1)

		:				1								ROC	S	3				;	:										1	1		
PNESSURE FOLL RATE ABS HES	40 97 1.04			7.24			' '		-5.14		1		-3.58	,	55.75		-2.55 -4.78		3,10 5,61						5.12.			7.65	:		-5.62			
IM -LUNN TEMP PRESSURI DEDNEES-C ABS	006,888 5.791				i.		<u>.</u>	: ,	207.0	; -i -	: .i	٠.	211.8 1.617	211.7	211.8 1.589		212.7 1.560	, .i.	213.4 1.540	214.1 1.519	219.7	: .:	216.0 1.474	::	217.7	: .:	∴	219.2	7.		220.4 1.327		PAGE 1	
D CONNECTED T TENE ONENT DEGREES-C	-8.07 197.3 -5.99 197.3	-3.11 197.5 -3.11 197.5 5.29 197.4	2.64 201.	-13,66 202.4 -12,39 202.2 -13,78 303.0	5.62 203.		-9.50 205.9	3.30	-10.61 206.6	2,39	-7.97 207.9 -9.82 208.5		-6.06 211.4	18.	-5.22 211.3	•	-3.06 212.3	:		213	4.64	. 48		<u> </u>	-3.57 217.2		5,90 217,3	-7.79 218.6	4	, 0, 2,	-7.33 219.9		SCRATCH FILE	
C) EJI UN "LÜBKLOTELL Y X Y YOMFÜNEN) CUAFÜNEN! COMFÜ	, ,	-13.58 -12.45		11.0 12.7. 9.19 9.79	: 21: - 1	-9.01 -11.60 -6.30 -10.46	-5.03 -8.23	4.	-7.78 -11.43	-	10.00 -9.97	7	-6.97 -17.86	7	-5,23 -14,37	1	-1.62 -17.01		.94(7.52	1.25	3, 23		-5.89 -20.08		52.942 89.62	4.04		-7.54 -23,19			. 6. 3. N		INTERMEDIATE	
CURMI 2 CUMENT	¬ '		297	0.00 - 8.87		23	: :	'	9.50	13,20	14.73	7	2,42 -16,18	31 . 1	6.02 -15.52		9.21 -17.98		9.64 -16.66 6.34 -15.83		7. 45	37	4.14 -19.61		20,462	•	0.14 -01.58	'	.	7.9	61		2 29 MAKE 1984	
SIN	19197, 42	19461.07	19694.	(/ • 17:84) 00 • 0000; 08 • 6:000;	8-05-02	204643.30	20575.81	86 101900	17 · CUXUZ	21154.67	2120.	21483, 42		AB - 18482.35			22589.21	24.741.97	22869.64	23177,65	13.5542.1	1,48/381	23834,14	2415	777 11842	6.4694	2487C	25181.85	22.422, 55	25684	25022		141121	

						1					•									and the same of th	:			R	oc .	S	3				:			1							!				•		
-7.08	4.00 to 10.0	70.07	-6.06	-6.21	-6.80	•	-7.62		50°00''''''''''''''''''''''''''''''''''	:	-8.75	-8.8I	111.63	-7.42	90*/-		14.79	-9.11	ъ.	v (12.98	-9.44	ีเก	85.11-	=14.00 -12 cl	12.71	-15.60	=14+66	-16.37	-16.18	-20.82	-19,76	20.02	23.52	-23.32	-22.49	22.68	226.A1	28,28	-31.41	-33.27	-36, 38	-37.22	43.04	-48.87	56.41	
1.314		i	257	1.245	1,232	1,218		ţ	ī	• 1	,	•	1.082		1- 720-1		ı				116		1			i		183		ξ !			44.					0					1	•		331	
2501.5	4 · · · · · · · · · · · · · · · · · · ·	0.000 0.000) (a) (b) (c) (c)	272.2	222.1	61688	224.7	226.0	227.3	226.9	227.6	227.2	22d.7	2.400	227.1	225.1	224.3	- 223.4	223.0	222.0	225.3	229.4	230.7	231.2	2.53.4	237-8	240.7	244.7	7.48.7	251.6	256.7	258,9	258.7	261.4	265.2	267.2	265.8	2,652.	269.3	269.5	272.8	275.7	271.3	270.5	273.4	272.7	ı
0.150	A 17 77	0.777	2000	221.7	221.6	272,3	224.2	220,0	D . ACC	0.000 4.000 4.000	276.4	226.6	2.28-1	0.000	226.5	274.6	223.6		222.4	22.5	224.6	228.7	4.877	230.4	232.6	237.6	239.9	243.9	24/07	250.7	255.7	258.0	H-/52/	260.3	264.1	266.2	264.8	7,04.1	268.1	268.1	271.3	274.3	3.69°	268.5	271.3	267.9	
7.40	CH*/-	08.7	8.97	99 · B	-10.22	-7.74	-6.42	35.50	00.00	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-4.47	'n	3.21					11.32	-11.43	-8.36	-18.14	-13.24	: :	.		-14.48	-12.74	-12.56	13.87	-9. IB	-16.92	-13.01	- 1 - 44	3.06	01	49	-11.31	-17.18 -75.54	-32,83	-21.56	-31.96	-30.22	-14-06	-24.35	-20.02	. •3	
25.47	/ A · S · · ·	27.46	100.007	.27.04	28,58	-30.00	-31.54	-50.72	- 27 1 13	-30,32	-33.86	-32.03	34.32	FO * 101	70.44	25.03	-33,87	33.63	-33,11	24.13	-36.02	-31.29	-30.33	-26.44	- 51.52 - 70 CF	-34.80	-35.29	52. 42	75.52	-38,26	-34.17	-27.66	-24.04	-25.44	-25.76	20.61	86.6-	5.Xu	7.68	-12,94		1.08	8.65	9.49	2,69	3.19	
-7.14	17.65	8. 3. 1. X.	18.6-	-8.53	10.6-	-8.84	-9.75	25.00 00:00 00:00	1/10/	-6.64	4.01	-4.15	4.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-14.42	1.55. E.	-13.78	18.41-	-13.01	= 2.5. 44.	-15.03	-19.07	-20. 42	-19.77	7H•Ht	-16.32	-14.87	99:11	-10.30 -10.30	-11.93	-11.57	-9.47	-27.54	1.26	33.	-2.88	-10.70	-22.84	-27,06	-28.99	-27.31	-25.40	-73.60	-24.86	-24.79	26.4	
-25, 18	1,000	02.50	26.11	121.24	-28.40	-234.63	50. 48	30.43		-31,54	52.56.	-52,78		-51.32 	-10.44	34.45°	50.95	31.80	-31.54	-41. 58	- 50 . 9 I	-29.81	30.23	-29,42	-30° Bo	34.34	-37.24	18 81	40.28	-57.54	-34.06	-29.93	26.95	-25.59	-23.63	18.61	5, 4,	90.1-	84.0	-2.69	=2, 33	-1.57	07.1	\;	• •		
26213.01	26466. BU	26647.03	27067.43	27,252.00	27446.67	21441.13	27901.09	ı		Z8580.21	1			30071.04		:		31567.77	31844.86	קייאפייזר	323H1, 59	34		33870.42	74.58.64 74.60 74	35094.27	35559.08	16(1) 1.02	36308,89		84		39H 14 40	74			42485.51	44024.24	44834.61	45/50.02	46/2Us29	47745.03	41869.47	500/3:09	52838.63	54411.78	1
	1	İ	 	1							1													Pi	AS:		⊋ 90			İ	1								1						:	,	•

• • • •

SM122-10 (4.12 - 1.0.44 - 4.13 - 1.0.57 2.0.40 - 49.24 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 2.0.10 2.0.10 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 2.0.10 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 2.0.10 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 2.0.10 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 1.0.25 SM122-10 (4.11 - 2.0.4 - 4.13 - 4.13 - 4.13 - 4.13 - 4.13 - 4.13 - 4.13 SM122-10 (4.11 - 2.0.4 - 4.13 - 4.1			i		ROCS 3		i i	i	
27 HAN: 1744 INTERPEDIATE SCRATCH FILE									
14.175 5.04 14.175 5.05 2.04.0 2.02.0 1.03.5 2.04.0 2.02.0 1.03.5 2.04.0 2.02.0 1.03.5 2.04.0 2.02.0 1.03.5 2.04.0 2.02.0 1.03.5 2.04.0 2.02.0 1.03.5 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	-60.91 -69.24		!	1 1					,
20, 14.13, 5.03, 14.14, 5.73, 2.58.0 10, 14.15, 15.73, 2.58.0 10, 14.15, 15.73, 2.58.0			1			:			PAGE 3
EU 13.15 5.63 14.15 5.25 FOR THE STATE STATES THE FILE						4		i	
27 HAR 1 1984		:				!		!	SURATON FILE
27 HAR 1 1984	41.4		· •				:	; 1	NIERHEDIATE
							!	<u>.</u>	
						·			6 13 13

																	1	!				management of the second secon				1	ROC	cs	3				•	i			:		!									:		4	
																						r					1					:														:					
									1								1																						1			1									:
	X X X X X X X X X X X X X X X X X X X	1 K / K		No seet par consist	A_A, 6E (+ 6E (+ 67 + 6 A (4256 + 7567 + 6) A (AP A SAIINE BANKERA	C) 660 10 10 160/	A TOUNG ** ALK * BEV.	REV.C). GA 'LIBBL.L	A. P (@J A-NNA4. F	REMNHEMNC), 64 >P.	GLNSAX) IA) PSAO		A UM. CAN AFGO	GU GERMINSTON	CARGO DOMANAX.S.	R.ITTC), GAME IN	A. L. A 7A. 33AFFF	BJ≈\8J4.A.A.AsQ.	DN. LA. E. A 74. 33.	AFFFBC=-BJ4.A. Y	ASU. INV. AZTIRI.	HHWWHIELDNV.BKI, A. 1644 MD. 447	ALTERACEMENT STATES	BL 'FA. :43. WUU3L.	A&B, ADOIN FFA. *	Bh. Bh. a4. INAFHI	CP. PA. W=AP A. 13	Anti-HE THIS HAVE A	ALENDA BN. JBD. M.	AA-UJDGL.A.TJ	A. KA. 11448. BU. Y.	EO.)A.R. AG. FEG) 7	A. L. ALANA. PIA/K3	BNC - BUMBH - W - H - DU	A) TOBN. (50 A.).	ARF. DR., ASAUA "QG	AJOUAF2*BO.E60	A AS MS. MANG.	TAN THE STATE OF BOX	ле гом, миме, плэм. В. Тай, шка:	BPX OBPK . A. X. A	DSKKB. / A. GVB. #3	A'B*BPENHG", A. /U	AOLLOY. >B. I. AT	H FAM BK BK	ALA=P. DU.LBJ	Acw. Fr. JUAA Benn	BSW+AMA? . Liudor	А. ІОЯВСУЯМІЛЯЛИ.	PAGE
3 7 6	· HODY		0000	000	/E0/ F		_	_			-			_	ARORE .	6170	2000	4666	1110				1.447 1.847	-		A2AA	CIM	BBBB	3/33	OBEE	546A				1000	BBA7	5107	_	_		124A F	-	A333	20 S			_			ESSE	RINARY DUMP
,	•	1913		0177										_	į	9.509				;		E CIAL							2 411H			8 _ 42CE		F C15C		i			÷	4207						•	_			35T3 N	FILE PINAR
	ن ا	ទីត			T ?	A YX	, J	3	4	Ë	~ ;		∾) -	- ;	.		۳ نو د	i zá		<u>ب</u>	oon .		3 (`	•	9	יסט		אכ נ	4	=	→ !		3 ^	0		٠	L		; =	רני י	ú		ŭ	3	٠	٥.	₹ 4		;
				777	490H 4500			2AAA C131							35.77 420.8	04440 VV	7F.57 C.140			E813 E881		COME CLAS		713 6655	945E C133		BEZZ 411B		100E 42CE		5500 4451	1		416F C19	HERB CAZE	ŧ.			1888 A455					ESCR 4211		1000 42E2	4		0F40 C13F		IATE SC
		10 1011		(10) 4()							4205 6F				17 BETT		433E 7F					4445		•		C164 D1			42LII. E0	- 3		i		C168 41		42CE 94			81 SCIT					42116 ES			o :		4119 61		INTERMEDIATE SCRATCH
	, , ,			200		_		_					6222				4 6259			1		Hill 4					1		6 - 0080 6 - 0080			,				İ		_	SE/A C		i		_	LZAA 43		,	_		9770		1984
					1013				4205 - 2				CC24		!		4004 4004					17.73		10013	į		1		T HATT					3673		!			Alle Class		1					,	_		0 50ZV		29 MAR.
	1		9 :		9				Ì		.09				ì		85			ì		7.5		89		83	B FB	8 S	92	116		Ì		350		i -	156		007		178		188			1			891		14:22: 5

8.

128 4221 4411 4211 1814 4112 4105 1116 385 582 587 687	;		-			:		1						-														200	28	3																						
10.0 42.03 444		,								•													!							:			1					!							!				:	1	1	,
10.0 42.03 444					,											:			,				!		:	1		•		:			:					:				1			; ;		-			;		:
10.0 1.03 3.434 2.014 3.160 C.155 E.571 C.1510 3.533 11.0 C.153 2.648 4.203 3.248 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204 4.204					•					:		i				1		•							1																		1							!		:
100 1.03 3.44								1 .		:				1				1												1																		'				i
100 1.03 3.44		T T T.	AUL. AKSS	7 H . n	HARE HO.E.	Del. L. R	AISIBSK.	KAn i. Dwdi.	B FA. =U	8AA(U]	th. P. B.	2H (9) A. S.	B. ENGNC	BICEDO.D	DYUZB.)X	IRALIA NI A MI	THI		46. Y. 68.	(BV A.LX	B. S. 638L	BOK. BUEU	ATTENDED C	145.1 II.V	78. I. Don.	A. BYGMNN	IA DEB L	. Вх. Аб ы	4B.P.A7.A	TO YEAR	EG. MWBYKG	-AW4DD~wD	Beech9al.	A. IAKB.	FEVERAL	2B. 1X60.0	BY. BY (Y	PASSE. H.	EATLBY TH	I CONTINUE BY	CA. NNARTI	Ax. UB. 0.	/BL! SALL	B. J. AN?T	"BLOSBESY	100 T.B.	A. VEDE	aR. #ABY.	19. 74(. 5	ran/. H.P.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 1 1 1 1
10.8 420.3 441F 420.5 1640 0.155 0.150				_									_	_	_	7										- 1		- 1			- 1		- 1					F				•	A.SLBZ	-	- 1	_			,	DEA. B		i
108 4263 441F 4203 6FB1 4119 4605 4119 4655 4119 4												1						:	į				ì		!	İ					ı		i					1				:	,		1				į	. 57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
108 4203 4414 4203 65481 4119 4454 3334 4455 5248 4203 1140 1153 27888 4203 5248 4203 1140 4454 4119 4203 5248 4203 1140 4203 5248 4203 1140 4203 5248 4203 1140 4203 5248 4203 1140 4203 5248 4203 1140 4203 5248 4203 1140 4203 5248 4203 1140 4203										1					_	ŧ		I	,		1		i			- 1												i				ı										
108	<u>.</u>	4114	22.2	2024	6254 4254	4457	C149	C164	C212	4119	6113	4204	C211	42n4	4459	- 411B	C131		0113	4206	0173	4200	177	C 533	4163	4112	C15E	42DB	C214	4456	C115	C157	C213	4117	427.0	C215	4209	4461	C15E	25.5	4116	C178	42DR	C217	420B	40.0	2613	CZIB	4115	C164	14000	DC DC
108	i i															!		;			1					-				!			j					Į		1			-				ļ					Chilerian
108 4203 46 109 1109 1109 1109 1109 1109 1109 1109	•										_					İ		!										İ							1			1		ì		ĺ			-		İ	į		1	- 11	
10.00	·					-				i						Ì			i		į					-				i						i		-							ı					1		
Date 1										l				1		İ		!	1				ı			ļ		1		İ			1		Ì			-		1			1		1			í		1		.
		-	1	٠,		, T	-		(·d			'¶'	.4.	,	. 4 -		.			£4.	1	``	1		"		•			1°		rvi -			"		(2)	·1	, tel) (°)		F3	י ניח		·) :"	"		, m	E -		

		1	ROCS 3		
		· - -			· ·
; ; ;					
	संस्कृत के बिक्क के के कि		Alumbadse. Alumbadse. A. 3ARubba. AGETRIN. AGETR		45.6 A P. V. DVINB. SIGN
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	C110 C110
60AE 2660 FBAZ 2300 A222 A272 A277 7666 BFBA F132 A264	FB61 737F 737F 8999 93HB 9729 7040 7040 7646 2907	FA22 6722 2140 HBING 6026	89AAD 51N°B 04C0 8222 FUSS 4 0716 9FF4	2014 6114 508A 508A 76EZ 3666 8833 5044 66CA	1892 1896 1892 1892 1892 1935 1935 1935 1935 1935
4200 6214 4200 4467 6170 6170 6218 4114 61184 6218 6218	4200 6163 6163 6163 6216 4113 6216 6216 6216	C107 C192 C210 4112 C183	C21F 42E2 4472 4472 C188 C188 C220	0156 4264 6217 6218 6109 6176 6216 4310	4478 4478 6218 6218 6221 6221 6021 6221 6221 6218 6218 6218 6218 6218
EXCR 6503 7889 2911 FY11 11C6 11C6 11C7 2235 886F 886F	2042 0422 0422 1063 1063 2516 5366 Fp18	8750 FZFII 490E B946 D4AC	3435 2435 7555 7555 10008 E506 6019 3690	25641 1143 7745 7745 6222 8888 8986 8986 1069 7381	27.28 29.48 72.22 62.22 07.33 E169 1166 60.36 41.87
4208 4446 6174 6217 4114 6217 4214 6217 4469	0.189 0.180 0.180 0.180 0.180 0.180 0.180 0.180 0.180	C21E 4112 C18B C18B 42E2 C21E	4471 C135 C152 C221 4111 C342	0220 4264 4473 0162 0210 4110 01104 02106 02106	4254 6210 6210 6221 6221 6221 6216 6216 6216
5555 6 255 6 255 6 255 6 255 6 255 6 255 6 255 6 255 6 255 6 255 6 255	3400 1504 1504 1504 1506 1318 1318 1318 1318	4224 0916 0638 0638 1837	7777 5004 1033 2869 F764 C844 9EC8	3501. 2286. 2286. 5640. 5640. 5680. 8841. 8841. 877.	F111 DB51 DB51 C559 68BE B61B 569B 567B 7444
CL175 CL78 CL78 -4115 CL78 CL78 CL19 CL19 420 CL98 CL98 CL98 CL98 CL98 CL98 CL98 CL98	4114 4114 6118 6118 6216 6216 6217 6217 6217	4 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C15C C15C A112 A112 A2E2 A2E2 A2E2	6133 6133 6133 6133 6214 6217 6218 6218 6218 6218 6218 6218	C170 C170 C1271 40FC C1BD 420F 420F 447B C1BS C1BS
388 358 358 358 358 358 350 350 350 350 350 350 350 350 350 350	400 400 400 400 400 400 410 410 428	4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 8 4 4 4 8 4	PA\$S 2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	508 508 508 508 508 508 508 538 538 538

14:22: 5 27 hak, 1944 INTERNEDIATE SURAICH FILE HINARY DUMP

PAGE 3

•													:							. ·	• • • • • • • • • • • • • • • • • • •	S	3		Andreas to the control of the contro	1			· maken · · ·										1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
										:			1			. !!	: : : : : : : : : : : : : : : : : : : :								:										i ,						
	14-1 6 64. F. # 16 . MEALV			_		C631 AGU*D.N.R.K.KFB.F.I 2764 N.O.B.V.Hen.Heff	_	_			LINET B. FRM. GRAN. GH. M. CONT. AMARA C. M. C. M. C. C. C. C. C. C. C. C. C. C. C. C. C.					6408 FW7.BX.AW.7/B.D. FROO D B.Z.IA3F78Ax.	-	_		_	BYCE 69.(BT#DB.v#B.ZN. Esco C Ca A E Sub H	1988 C., CC. A. B. FWD, U. 1822 B. L. A., *1, (. Af.	_	E45H D.R. B. XAV) AB. T.L.	29f4 E. NE. FERRIDAR) +		-	GOES IS US GAIR BY DAILE.	ل ا	_		YEAA.A.Z*AAB#ELL.	-	_		_		TOOK B SICIAICIL EZIZ	_		
	926H 42E1	•	_	_	•	6888 (213 408 4227	_		_		182E 4080			111	_	CAR7 C224	70K	Ī	Ì	-	E924 42FF	4831 C100	_	2341	F2DD _ C12A	1		ILEG 4980		_		655 C - 3310 -				_	İ	1204 2445 2445 2225		_	
														,					1					İ		3433 44911		50.70 0.75				ŧ					1				
										ŧ			1				:		i							7798 C214						1					1				
			;				ļ			i		ı					1		İ	979 P	,	25.0	648	-		9/04 0/9		1										_	SEB CICE	•	

	1				1								;						:				
			i .]												i J		
			•												,					:			
															;								
															1					i			
															1						•	:	
															1								
									,						!					i		!	
																						1	
									4						1								
11)	•	×/.		[7]	91.	91.	SH.	¥Ţ.	3	NF. !	. Gn	O.J.W	3.1	ز	3	• 1	Z K K	•	:		Ì	•	
B. NKAZX, B. UJC. TZ	RELIF	1. A. B.	AMC. H	#>E.A.3 '8 A.u.]	C. u. ?	629. DC A. CWK. 16	A. UNF. X. C. GFC. HS	せくまき	F C.	C G B ; DNF!	AAP. R. H. A' IL B. Or	3. a. C E? B0.3u	F 46	8CC. 2017_	AH. MI	**************************************	BMI.BKI. DC. NAKK	TF DBUNDSVEC.	COB. YPBE=	:		ì	
(A/x.	10.) r	B. F 4(# 13	A. 3.1	4C . 3F	, fic. ,	-K. X.	/B+	BAYNE	[]	R.H.		BAELFA	0.00	Lita	* . V H *	. BKI.	THOUSE.	Je. vP.	i		i	
18.N		3 A. L.	20 =	J B) E.	/ An.	678 5						_						_	ĭ i				
1.4.5	80 <u>0</u> 6	3776	4011	7500	RIC	DD.34	E82	4034	1/8	66AL	1900	UCF.	1,70	DCG.	- A2F	(6 to	6Br	2018	1	-		+	
4.51.0	44 HA	2172	67.74	418A	H: 84	8173	4310	4195	4310	44CE	8173	0.230	41.53	G054	1777	4310	C1113	4310	:	İ		1	
30	40	66	* * *	41	61	77	£.6	25	25.	3468	ວ	40	34	B2	CL	ВI	<u>: ا</u>	F7	80				
5	4.5	4	X.	40	<u></u>	S.	S	<u>1</u>	90	34	44	4	7A	0	B4	Ą	ŢŢ	F.6	30			i	
C.2.1F	C.2.7.1	1111	31-611	C217	4310	417C	4.510	4408	C214	C22E	415E	C03F	CLIA	4311	C148	4310	44E3	C153	C245		:		
1800	291.4	8684	38.76	5302	0/1111	8164	0.KBC	1190	C.C.66	/E03/	Car	0.651	Suci	CEBS	7194	IFAA	1163	6AAA	F 91 0	ļ ,		; ;	
7817	7.5	<u>*</u>	115	118	310	40.3	81,	228	451	028	BT.	115	145	310	4111	6.41	735	E2	OBB	:		!	
_		_										-			1	_		_		i	-	1	
41.41	5.0	41.14	347	EST	3/3	1865	191	FCF	17.H.7	191	<u></u>	F11.	316	961	LEB1.	AAAA	0.65	869	ă Tr		4 }	i	
1.2.1 B	4.11.4	6113	4511	4466	[, k .]	C252	1814	8103	HTT	4.51.1	4161	4310	44114	C219	E.38	1164	11001	C129	4.510	!		1	
708	1797	718	140	87/	7.50	/ 513	746	/48	1307	/58	797	168	770	178	_ Lth	788	77.7	8//	780			į	
																					1	İ	

ROCS 3

PASS 2 B-196 34:22: 5 29 MAK, 1944 INTERMEDIATE SCHATCH FILE HINAKY TÜME

РАGE 5

ROCS 3

ATTACHMENT 2
OUTPUT DISK FILE (FROM PASS 1)

/SEC		666.	.003	. 605	900	900	,003	• (/(.3		• 665		(0)	1007 m	100 t	661	+004	800	1001	900	700	00/	.010		900	.001	.002	0003	2000	100.	,001	0002	700	.007	,008	800						
× 5.	•	285.20	1	25	. 49	. 90	. 90	39	44	•	74	•	•	102.97		308.42	313.11	Ť	320.67		12	98	10	326.84	88	İ	351.00	, ,	329.87	33		• •		36	322,30	•					
	ઈ 	45	4	69	5.61	96	5.	5.32	54	35	- 64 1		9 ;	90./	12.42	14.84		1		1	23.04		0.5	9 0 0 0	8.5	9;	30.30		25		47.64	9	46	3	80.80	7		1 ;			
F 14:00 1	6743	4464.446	\$150 · 62:	65,7097	55,5876	46.7066	39,7002	33,7199	28.6684	24.3400	20.8008	17,7414	10.0744	13.5207	9.6655	8.1776	6.8933	5.9119	5.0131	79:0 2	7.2627	2.8739	2.5462	2,2312	1.7142	1.4966	1.3775	1.0455	9166	.8675	- 541/4	5615	. 4987	4460	5775		-	:			
. Kr () .	3 50	* ******	46.8581-	39,8551	33, \$738	29,0207	24.8342	21,2844	18-2748	15,6962	13.5159	11.6488		8,6278	6.4130	5.5516	4.8231	4.2067	3,6791	0 0200	2.4900	2,1929	1.9314	1.7610	1,3233	1.1687	1.0332	. 8060	8112	.6288	7555	4335	. 3826	3369							
E =	CURK	. 46		45	147	8 + -	03	<u>.</u>	-151-	57	53	09.	u v v v v v v v v v	69.1	73	83	87	62+=	6.5°	3 5	-1.02	. 9d	=1.08	-1,2 4	-1.41	- 55 T= .	1. 540		-21.15	-2,24	-2.53	-2.84	-2.97	3.44	79.7	;		i			
=	¥	202.24	206.58	211.30	26.512.	216.46	217.93	219.96	222.04	224.66	226.37	228.74	47.477	27.4.31	231.15	236.51	243,75	247.90	255.67	75.050	263.45	265,83	264.26	265,60	268.93	272.06	269.69	268,58	220.55	271,30	270.23	268.94	267.28	26.5.20	00.000	10.000	61559	; 	FLURIDA		
Ξ. ::	÷	5)	47	~	7	5.	23	92	27	<u>\$</u> ;	32-	Ç,	3 :	4 Y	38	38	4	AF	38	4:) 4	17	16	23	23	27.	7 C	95	26	% ?	- 26 - 26	24	3.9	4:	† <	ζ.	، بير	0000	AFS:	1984	ı
211	[4-13]	4//	236	749	27.1	097	757	90%	157		555	993		747	237	243	253	254		3	272	252	661	183	183	587	182	163	160	162	797	17	. 6.	214	0.40		irru		CANAVERAL	IN JAN	
	SEONN	00000	00012	30077	23000	74000	25000	2,6000	22000	76000	00087	30000	00011	77,000	34000	35000	34000	32000	38000	\$0000	000014	42000	43000	44000	46000	42000	48000	30000	SLOOD	00000	14000 14000	55000	5,6000	non/	0005	(310)	MAXTHUM ALTITUDE	TEST NUMBER	CAPE CANA	15152 18	!

1	IND I SHEET	KI FEN	a01-7	0401	34.00	00,300	A COMPA	ă	ÿ	i I		
1	GEUMA	930	5 2	X	100 100 100 100 100 100 100 100 100 100	899	67M3	H 65	S JE	78E13-		-
	קייויות.	2.24	.4	202,24	44	2.25.25.25.25.25.25.25.25.25.25.25.25.25	6666 666	7.24	285.20	665		
	30.50	230	4	204.33	. 4.	53,0085	90.3771	3,23	286.67	.008		
i	20506	246	-	205,53	4.4	50.8632	86.2151	5.67	287.51	210.		
	20750	2.36	3	206.82	44	48.8160	62,2270	3,68	268,42	900.		
	00010	27.6	4 2	200.28	4	- 46.8581 44.6004	- 74-0216 - 54 4107	47.	200000000000000000000000000000000000000	973		[
	90512	440	2 2	20.000	. 4	44.1000	1011 0	7.4	00.000	70		į
i i	21750	247	BI	211.25	4.4	41.4843	68,4129	3.96	291.49	700		İ
}	22000	249	71	211.30	45	39.8551	65.7097	4.69	291.52	500		
	22250	253	7.	211.40	46	38.2906	63, 1007	6.00	291.59	4004		
	22.50	100	9 0	07 616	74	75 75 16	E7 0.07	- 10	200 47	210		1
	23000	221	91	212,92	747	33,9238	55,5876	5,61	272.64	870		
	23250	263	16	213.94	- 48	32.6534	53, 1739	5.64	293, 33	600.		
	2.3500	253	1H.	215,04	_ = 47	31,3961	50,8551	5.27	234.42	1013		
	23750	253	25	215.50	-,47	30, 1807	48.7912	5.42	294, 40	.007		
	24250	264	21	217.10	48	27.9103	44.7882	5.28	295.49	700		İ
	24500	263	7	217,25	49	26.8442	43.0420	2,36	295.60	. 002		
	24750	258	22	217.23	- 48	25,8191	41,4074	5.77	295.58	800.		
	25250	252	40	218.80	. 52	27.6911	78.0410	7. 63	294.44	900		
	25500	25.4	Ç K	219.41	- 52	22.9868	16.4937	10 × H	292.06	503		
PA	25750	256	25	219.91	SI	22.1187	35.0402	7.50	297.40	400	R .	
\$	26000	907	4	217.40	a :	21.2844	33. 7199		247.439	2007		1
3 2	26250	254 252	2 6	221.15	553	19,7173	32,2684	6.80	278.24 298.25	\$00.	es i	
	26750	251	27	222.06	53	18, 9807	29.7784	8.52	29.842	. 002	3	
	22000	252	22	222,04	3	·18,2718	28.66H4	5.82	29B.84	1003		1
	27250	253	5. 2. 2. 3. 3.	221.71	-, 52	17,5690	27.6380	6.21	298.61	900.		
	27750	253	31	222.97	. 56	16.3000	25.4677	7.83	299.46	005		
	28000	252	32	224,66	57	15,6962	24.3400	8.32	300.59	6003		1
	28250	253	35	225.66	57	15, 1182	23, 3394	8.23	301.27	. 002		
	28750	25.5	25	226.47	200	14.02033	21.5827	12.5	20100	200		I
	29000	259	32	226, 37	100	13,5159	20.8008	5.49	301.74	3		
	29250	263	33	226.44	58	13.0210	20,0326	8.76	301.78	.010		
	202200	767	2.5	220 B2	700	12,0498	19, 2657	22.77	302,03	100		-
	30000	707 707	25	228, 24	7,60	11.6488	17.7414	9,77	303,31	3		
	30250	251	32	228,28	-, 57	11,2261	17, 1325	8.23	303.00	110.		
	20202	86% (7	227, 10	22	10,8174	16, 5943	8,79	302, 22	655	The second section of the second section is a section of the second section of the second section is a second section of the second section is a second section of the second section of the second section is a second section of the section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the second section of the section of t	!
	30/00	240	4 F	223.33	000	10.4213	8/60.01	200	301.18	20.		
	03012	2440	72	221.52	77	4757 57 O	12,0450	7,00	300 to 31	2004	e designation of managements and the second second of the second	1
	31230	240	t ∜	222,96	. 62	9.3074	14,5432	14.13	277.83	200		
	31750	248	34	222.54	62	8.9614	14.0289	4 -	299.17	. 002		
	3000	247	4.5	2221.31	7.65	B16278	13,5207	7,66	299,02	.003		į
	32250	245	34	223.54	72	8,3075	12.9470	10.19	299,84	400.		
	35200	243 _	44	.225.44	-1/6	8,0014	12,3648	13,68	301.12	900	The second of th	İ
•	1				1 1 1			1	!		:	
	13112119	29 HAR.	te 1984	4		RUCKET DATA	£			PAGE		
			-		1			:		N		1
	•								١,			

-, 72	22.94.54 22.37.16 22.37.16 22.37.16 22.37.16 22.37.16 22.37.19 23.37.19 23.37.19 23.37.19 23.37.19 23.37.19 23.37.19 23.37.19 23.
-------	---

47250 184 47250 184 47500 184 47750 184	,	177			7704 .	7.	· · ·	7.00		i		
-		47.00	-1.49	1.1687	F - 4700	54.10	* > > >			i		
		272,78	-1.48	1,1333	1.4474	34.85	331,22	. 002			•	
-	į	- 1	44v	5.0983	1.399A	35.59	331.66					
			-1.45	1,0656	1,3538	36, 33	332,09	. 002				
			-1.45	1.6332	1.3170	36.56	331.55	500				
-			-1.46	1.0018	1.2817	36.75	330,94	.00				
~	,		-1.47	41.74	1.2473	14.94	350, 33	\$ 000 ·				
//I 00/84	***	270, 52	1.48	4164	1,21.59	57, 13	527 / 5 200 TE	500				1
] -		l	1	1880	1445	20.07	200.18	999				
		269.13	-1,27	H529	1,1165	40.27	329,00	100				
49750 166		268.85	-1.68	8316	1,0775	41.48	328,83	.005				
j	1	268.58	1.92 -		1.0455	42.69	328.66	500				
	2 26	268.89	-2.05	.7813	1.0123	43.46	328,85	.002				
		269.44	80.5-	7574	9733	44.06	329-19	100				
-	1 26	270.00	-2,12	.7343	,9474	44.65	329,53	.001				
1	1	220.55	=2,15	-4118-	49166	A5.25	329.82	1007				
-		271.11	-2.19	. 6900	. 6867	45.84	330.21	100.				
121		271.47	20.01	7897	7CLB	44.85	170.47	Onn •				
		271.30	20.00 40.00	0000	8078	40,02	330, 33	200	i			
		271.23	-2.25	. 6097	. 7831	47.78		. 002				
7		221.16	-2,27	5911	7595	48.24	330.24	4002				Ì
_	66 26	271.09	-2,28	.5731	.7366	48.70	330.20	, 002				
٦		270.95	-2,33	5557	7145	48.64	330.11	- 002				
	7 26	270.76	-2.41	.5387	. 6931	50,83	330.00	. 002				
מייי יישביבי		HC TO	-2. BH	2777	955	1000	X	2007				
54000 104	, 70 10 10 10 10 10 10 10 10 10 10 10 10 10	270.23	-2.63	• 500s	4200	33.22	327.78					מפ
	1	270.03	-2.71	4759	.6140	55.41	329,55	200				C
54500 121	j	269.72	-2.77	4614	5958	56.62	329,39	603				
 ,	25	269,35	-2.80	. 4472	.5784	57.26	329.14	.007				ł
55250 180		248.52	-2.87	4201	545	58.54	178.63	200				
		268, 11	-2,90	4072	5292	59, 18	328,38	700				
		267.69	-2.94	. 3947	.5137	59,82	328, 12	.007				
- 1		267.28	-2447	13826	4987	64.46	327.87	1007				
	-	266.65	-3.03	.3708	. 4844		327.48	.007				
102 00090		2654.50	97.45-	45.5	4222	62.29	326.22	870				
52066	0 ¥	26.4.30	13.42B	B/#5.	4084	64.47	320.07	800				
57250 221		262.05	-3.53	. 3264	4339	65.49	324.65	900				
5/500 22		260.90	-3,66	3161	14221	66.55	323, 93	800				1
	٠	259.75	-3.78	. 3062	.4107	67.62	323, 22	800.				
58129 249	41 6	258.01	-3.97	29.17	3939	68.28 86.28	377.13	HOD .				
}	}							3		\$	i	}
PAXININ ALIIIUVE	3001	61559	ļ		! ! !	i	i	:		: !	i	1
	7747											
CAPE CANADERAL		0000 0000					1					
AL 81 22151	~	La violation		1		1	1					1
1 45 1 055715	avi – Moje											
1	177 - NW 7	1		-								
				11								
13:12:19 29	HAR, 198	34	ŭŻ.	ROCKET DATA	1			PAGE				

													!							ocs	3				:							1		1							
								:								-					!			 - -	i							,		1			:				1
						•			!				:												ļ				,			:			!						
			•					<u> </u>			-														!			: : :				ł		:	1						:
						: .																										1		† †							1
7.8EC	210.	.015	910.	. 00%	500	110	010.	.007	.003	010	.004	200.	010.	400	5003	603	. 002	,004 006	. 605	5003	1002	.005	.002	900	.010	/90	500.	- 002 	.005	900.	500	. 004	800.	400	.003	. OOH	800	800·		PAGE	n
655, 10	558,02 560,14	560.67	562,45	564,59	566, 43	567.44	568,52	569.27	571,13	573, 49	574.18	574.13	575.02	577.40	577.69	580.35	580.58	529.96	581.59	585.51	586.20	586,15	587.16	588.97	587.22	584,73	582.02	581.26	58.3.07	586.02	589,33	590.40	591,27	595, 37	597.43	599.47	601.79 604.50	607.87			
14.42	20.61	16.91	8,36	12,85	19.69	13.41	16.74	20.60	16.81	18.60	-19-73	18.72	12.79	29.56	13.55	26.08	23, 19.	22.02	25.73	22.90	41.59	19,31	32,33	28.36	31, 37	27,82	38.90	30.2P	32.54	47.11	32,17	40.83	37,72	45.24	43.83	49.68		43			
6/M3 92-5960 -	87,4883	78,5813	74, 1346	70,0286	63.0961	59.8804	56.8271	53.5993	51,1254	46.0815	43.8364	41.8120	39. 7446	35.8754	34.2022	30.8699	29.4464	28.1366 26.8927	25,5302	22,9826	21.9077	20.9369	19.0525	17,3017	16.6360	16.0317	14.7616	14.1325	12.8059	12,1120	10.9416	10.4236	9.9385	R. 9709	8.5266	8.1076	7, 7052	6.9340		₹	1
84 1967	49.0046	46.6190	44. 3550	42,2184	38,2878	36.4660	34,7381	33,0963	31,5406	28,6637	27.3334	26,0661	24.8587	22,6240	21,5875	19.6643	18, 2224	17.9210	16, 3324	14.9014	14.2379	13,6048	12,4230	11,3508	10.8495	10.3670	9.4572	9,0306	8.2340	7.8668	7.1870	6.8717	6,5713	6.0.41	5,7559	5.5104	5.0560	4.8457	- 11	KOCKET DATA	
CORR.	44		4	46	. 46	94.	45	84.	47	48	- 48	94.1	000	52	49	. 53	51	-, 52	56	-, 56	60	58	09	1.58	. 52.	56	64		-174	76	0/	72	-,72	8/ *	67.	-,83	28.	87		•	
203.02	205.17	206.68	208.44	216.63	211.40	212.16	212,96	213.52	214.92	216.70	217.23	217.18	217.90	219.70	219.89		222.10	221.62	227.87	225.88	226.41	226, 38	227.16	228.56	227.20	225,28	223,19	222.61	224.00	226.27	278.83	229.67	230,35	233,55	235.17	236.78	240.77	243.46		4	
514	5 6	97	7 €	9¥.	Ç	25	53	75	\$2 2 2	4	14	4.	دلا	4.9	3 3 -	51	3	y R	61	62	62	63	64	63	4 9	67	99	99		/9	59	77	500	7.7	7.2	4/		67	11	R, 1984	
3 10 0 3 10 0	25.6	235	2.58	247 248	253	263	27.8	- 266	600 400 400	261	265	500 000 000	3	255	257	252	251	251 252	253	254	255	258	262	35.5	248	245 245	248	249	245	242	237	236	236	239	240	243	240	253		29 MAR	: 1
1 3401 11	00089	00069	20000	71000	7.5000	74000	75000	76000	77000	20067	COCOR	81000	B.2000	84000	94000 94000	H7000	вноло	83000 83000	91000	2005.4	84000	95000 96000	00074	300044	100000	102000	000800	104000	106000	000701	108000	110000	22,000	11,4666	114000	33051	13/666	118000	11	13:12:19	

TANKS OF THE PROPERTY OF THE P

272 46 264.22 282 37 266.08 284 32 266.08 289 32 266.08 213 29 264.62 200 31 264.29 190 35 264.15 187 39 264.15 187 39 264.15 188 47 266.15 188 47 266.15 188 51 267.92 185 56 267.92 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08 185 57 268.08	3, 5523 3, 5524 3, 6215 2, 9750 4, 9750 6, 7882 2, 6782 2, 6782 2, 6732 2, 2613 2,	4, 5267 64, 75 4, 1820 65, 78 4, 1820 65, 78 4, 0167 66, 09 3, 8530 67, 26 3, 5284 76, 42 3, 5285 72, 28 3, 5287 73, 19 2, 5511 74, 30 2, 5535 82, 58 2, 5535 82 2,		0.04 0.04 0.04 0.08 0.07 0.03 0.03 0.04 0.12 0.12 0.01 0.01 0.01 0.02 0.07
183 49 273.90 181 48 272.68 177 47 271.46 173 47 270.24 173 48 270.24 174 48 269.51 170 48 269.93 163 50 268.93 160 51 270.46 160 51 270.44 160 51 271.44 160 51 271.44 160 51 271.44 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40 160 51 271.40	1. 0521 1. 0132 9758 9758 9758 9386 8386 8386 8473 7773 7728 6480		644, 74 641, 87 639, 68 638, 87 638, 87 638, 87 641, 83 641, 85 641, 85 641, 85 641, 85 641, 85 641, 85 641, 85	. 002 . 003 . 003 . 004 . 005 . 005 . 005 . 001 . 002 . 002 . 002 . 002 . 002 . 002 . 002 . 002 . 002 . 002 . 002

			1		}	1		1		1	1		1
, . ` •										<u> </u>	-		
		1			1					ļ ,			
		:			i					!			
			!										
		:									;		
			i					{			1		
								-					
		;	1								,		
		,			i	-				!	i	,	
			!					!					
	.002	200.		.003	3		. 007	700	800	000	873	900.	800.
		2.50		9.75		10.0	7.34	16.34	2 5	40.0	10.36	8.67	625.76
													i
	168.	172	- 583 	186.	œ :	10	196	80	202	200	10.0	219,	227.16
	6856	6667	9050	2916	5706	9000	5120	4838	1//•	446	4314	.4171	3939
		9 1) 	2				•		İ	;		1
	.5327	53.50	474	458	. 440	404	393	77	405	337	324	.311	162
	4		70.7	8/.	ر ج 190	3	. 94	28). 	-	26	.71	-3.97
	ļ		i					- {		1			i
	270.7	270.47	0/7	269.6	7.695	248.	267.6	26.2-1	0.00%	263.2	261.8	260.4	258.01
	i	•						;			j		27
	168	991	127	172	100	7	187	137	40%.	213	777	232	249
	i				1	,		1		187000			
•	1750	*		179000	900001	1	83	Statut.	200	87	Hanot	69	190714

ATTACHMENT 3 CO-RAWINSONDE FILE (SIGNIFICANT AND MANDATORY)

																					R	·		3										the second secon		and the second s								
አይር , ክሀ ሰ . (ኢን	100.00	- 00.001	84.74	65, 48	70.04	48.05	69.09	11.48	13.01	14.31	64.78	15.84	38.64	57.77	27.89	- 38.8t	27,14	35.14 -	20.655	CC0 ()()	293, 66	664.00	30.466	666.00	00.556	666	244,00	00.000	686.00	293.00	666.00	333.66	00.444	588.00	20.55									!
KEF . INDEK (N-UNITS)	556.7.	367.67	275.59	251.24	70.7	210.41	208.25	184.12	175, 33	142.79	143.62	126.09	122.88	117.41	106.64	- 92,30	85,41	71.98	68.68	92.69	AH. 32	35, 23	26.49	24.91	23.16	19,48	14.67	00.0	7.68	5.92	3.71	3.26	2,83	76.1	1.80			:				######################################	PAGE	1
FRESSURE (MMs)	1018.30	98.34.49 94.05.049	10.44	772.66	47.007	81.089	660.12	641.27	605.27	472.06	454.68	405.18	78.785 -	35.4.59	328.96	253,44	248.21	197.66	168.12	1.27. 20	136.22	88,91	66.72	62.90	59, 52	50.60	20.10	24.75	21,93	12.00	10.84	15.0	8,04	5.84	5.46								DATA	*
DEW FOINT	16.60	07.17	10.43	5.07	7 .	4 4	.3, 55	-23.36	-23,71	-34,98	-21.07	-40.84	-34 · 12.	140.24	-44.43	13. BZ	-58,05	67.58	69.90	60.00	76.56	06.65	99.96	06.65	99.90	06.65	22.20	06.66	29.90	99.40	66.65	05.55	06.44	59.90	93.90		1	1			1		SIGNIFICANT DA	:
TEMPERATURE (IR.G. C)	16,60	21.20	32.20	11.50	7.40	5.76	3,30	3.90	1.70	-13.50	. 716.04 .	-21.80	24.10	-28.40	-32.10		-47.20	76.92	-60.60	06.54		-77.30	- 27.72	-77.20	-73.20	-71.60	02.10	-57.90	-51.50	-52,80	-46.50	-46.80	00.20-	-41.60	-38.20	!	I ·					- i!	CORAWINSONDE SIG	1 .
MINU SPO (A)89	0	2 2) re 1 re	27	4	1 1	14	۲.	4.0	1.9	20	27	8 8	N E	32	77	31	29	M .	128	85	27	1.5	12:	77	13	90	S	78	- R.	36	36	95.	14	665	!	;			1				
WIND BIK Chebs	0	217	7.87	233	9000	73.77	204	78x -	195	244	757	243	1445	2 4 5 5 4 5 5 5 5 5	245	248	248	7.48	258	263	252	260	254	246	857	257	98.	252	260	7,64	261	250	243	246	444						!		27 HAK, 1984	1
- 44 th	BR . 4	76.70	10 10 10 10 10 10 10 10 10 10 10 10 10 1	2363,62	4184. 36	1421.93	3668.55	1904.34	4,370,75	6322,50	6602.43	7469.68	200 0010	H442.27	8978.05	_227649u_	10511.19	7.3HT- Yu	12692.06	14643. 57	4465.16	17233.61	18477.58	19240,20	ייי יאכאר	20524.18	2101010	24274.05	25752,40	241H4H6	30390.43	1277. YB	32334.12 32820.54	34461.99	34962, 24				!			il	14:46:32 27	
		ŀ	1			1					ļ			!		-		İ		B -	A 2	ss)9	3					!											j	ı	1	1	ż	

SARRED PRODUCTION - MARKETONIC

	٠		-		!																					P	200	cs		3			
	! ! :		•								1						:												-				,
	•														ŀ				1		:								1				:
													!		1												:		!				
	;						:		1		1																						
KEL , 19134. (2.)		100.00	65.86	64.65	94.51	68.71	68.21	69.77	34.44	13,36	26.78	16.13		22,57	53.40	24.93	26.89	35.01	333.00	00.665		665.00	30.888	00.655	77.566	00.655	933.00	00.655	992.00	666.666	00 566	659.00	999,00
FKESSUKE (MBS)		1000.00	950.00	900.00	850.00	800.00	00.05/	700.00	950.00	600.00	550.00	500.00	450,00	400.00	350,00	300.00	250.00	200.00	173.00	150.00	125,00	100.00	80,00	70.00	90.09	50.00	40.00	30.00	25.00	20.00	15.00	10.00	2,00
DEW FUINT		18.98	19.32	16.51	13.14	10.44	4.91	2,22	-14.12	-23.97	-21,01	-31,07	-22.92	-38,86	35.60 -	-50.22	-52,84	-67.08	99.90	66.65	- 35.90	66.65	99.90	66.65	06.99	99.90	99.96	66.65	99.90	59.90	99.90	99.90	22,90
IEMPERATUKE (BEG. C)		18,58	19.42	16.51	14.04	12,22	10.52	7, 58	3.62	10.1	-4,73	-10.13	-16.45	-22,48	-29.14	-37,39	46.8H	-59,33		-64.52	65.95	-74.43	-75, 91	-76.89	=74.21	-70.92	-61.50	-60.06	-57.98	-51.81	-51.58	-46.52	-50, 32
WINE SPD		ນ ກ	91	=	3.	=======================================	1.2	7.	7.4	14	19	61	7.7	88	. 51	23	30	29	35	36	- 32	34	20	91	77	-	18	18	21	26	33	38	35
WIND DIR		212	217	222	400	232	252	308	707	201	757	238	קבי:	242	243	248	248	267	260	264	256	250	254	252	256	257	RSZ	252	260	258	252	255	241
ALLITUDE GLD		161.30	44.20	1070.19	1556.21	2067.89	71 1809	3181.16	3745.60	4433.61	5124.94	1,856.51	56611,90	7544.52	- Bungara	9595,38	_108-211_	12266.09	1.50×6×92	14045.16	15158.04	16482.56	- 7220+BY	16540.82	19477.60	20459.48	21849.51	23636.10	24776.98	26209.96	2HU22.4H	30735.69	35062.78
-			ì								1										i						В		1	2 0			

14:40: 0

CURAMINSONDE MANDATORY DATA

ATTACHMENT 4
HAMDATA OUTPUT FILE

20 -15 -13.228+04.360+0322 21 -14 -12.833±03.814±0323 22 -7 -12.247±02.940±0322 23 -7 -12.193±02.87±03322 25 -9 -11.931±02.54±0322 27 -9 -11.701±02.231±0322 27 -6 -11.701±02.231±0322 27 -6 -11.323±03.231±0322 27 -6 -11.323±03.231±0322 33 -12,234+13,539+1297
31 -12,128+13,372+1292
31 -11,825+12,914+1299
31 -11,825+12,867+1299
32 -11,707+12,683+1299
81 -11,570+12,454+1301 7 -11.414+12.175+1302 7 -11.352+12.080+1302 4 -11.165+11.774+1303 9 -11.004+11.559+1300 03.469+15.673+1293 03.397±15.559+1293 02.902+14.671+1295 02.483+13.920+1296 _-26.289=18.075=1330 -25.557-17.145-1330 -34,335-15,615:1322 -33,369-14,460-1325 -29 -14.823+66.893+0313 -25 -14.207+05.912+0316 -17 -13.679+05.013+0321 -15 -13.395+04.583+0322 -11,169+01,492+0331 -45 -17.428+01.134+1303 -42 -16.413+09.665+0305 -37 -15.552+08.178+0308 -18,628+01,352+1299 03,000+14,842+1294 04.686+17.902+12u8 04,146+16,823+1292 03,986+16,571+1292 242428 2222 34 36 458 27. EATL-CENNIVERAL 615+ FLUGILIA 1515Z - 18 JAN 1984 27 MAR. 1984 345348624 TEST NUMBER GOODOR 3700254_41 3806251_36 3861252_31 3906254 30 4000262 27 4106272 24 3400237 36 3500243 38 4181281 LS 1961268 10 4700165 4H00182 14:44:12 2800255 2800259 5200162 5700214 30789CT 2745252 45001B3 4600183 **61819** 477000A 2700251 300199 2767273 2400260 2600256 2689251 25.56 2200249 2300271 E.C. LUCE 420024 550017 PASS 8-213 2

					:			i i			R.	ocs	s ¦3																			
															!																	
									•										•				,									
				!				:				i i				:			:				; ;									
				5		: 			·		· ••• •	<u> </u>				; - - -		-	: 			. - ,	! ! ! -		ɔ	`			- -	_		4
							!	ı					:			;			:				•								PAGE	•
54.05%	3 3 3 3 3	2					1						i i i						!													
0111,55411500 0401,063+1364 0107,214+0312 0404,051+040322		635		SS KH	064	460	890 890	0.54	013	026	058	022	024	0.25	666	565	655	666	999	666	665 665	666	277	665	999 55 18	356	367	275 275	255	227	A FILE	
49 -11,00011 -44 -17,000401 -32 -15,000407 -15 -43,000404 9 -12,000409				THE PRESS			i	07000	:	00000	04500	03500		02500	!	01200	00010	00800	20900	00500	00300	00250	00700	00100	0/000 14 € 15	101	_	556620	077265	071693	HAMBATA F	
51 10 56 11 58 15 27 20 8 24	2000 2000 2000 2000 2000 2000 2000 200	15	FLUNITA	rene Tene	194 193	140 131	105 049		İ	i		228380 29J 350	i		!	000 N69		10.00 0000 0000 0000 0000 0000 0000 000			655 109		AAA DIG		SOL. YYY	3		121 104		93 004		
15 24 1 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	12885 55444	£1 9:-	At S. 1984) E	200 200 200 200 200 200 200 200 200 200	5 55 5 55 5 55	- 500 000	00.7 00.7	200	900	010	9 10	014	2 Z	018	813	017	200	200 200	700	600	010	410.	610	020 aFS	2000	200	000	900	200	29 HAKF 1984	
3083241, 34 -4448246, 46 354Y550, 40 -44246246, 24 4234211, 15	4484380 25 5065160 26 5432169 26		LAPE CANAVERAL 1015Z 18 JAN	j _		0004/4 274	1	000269 209 001154 202	, ,			002299 242		005500	!	004280 264 004400		000416 204	ì i	006248 257	00/204 252		004056208 00405620		OTOO// 241		000093 212	000632 232		000904 223	14:44:12 29	
· · · · · · · · · · · · · · · · · · ·			; 		.	٠ د و	1		ر. ا			ss	Ţ			-	<i>,</i>	J 5		, ر	<i>,</i>	J .		. ر٠	~ 12	. •		. .	, J	J		,

	1				!					1													R	 oc:	s	3						:	1										:	ļ	
												1		:	1		-					*****		f			: : : : : : : : : : : : : : : : : : : :			1								:							
									•																								1 1		1				!				•		
	_		-	<u> </u>		_		-	 -	-	• ==-		-, -	·					! !	<u> </u>	•			- 			1			!								-				2390	20		
,								-						:					1					1 1 1 1 1 1 1 1 1						!		1	:		: :						:				
		068017 210	066012 208 064126 184		034666 364 047205 142							- 1			1		000,000,000		1	ļ		002474 008		-500 780100			000751 002	000585 001	İ	!	B		!							!		HANDALA FILE			
		2 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4			348							-)))	666	744	666	277	h 00		1		299		666	666	666	272	666 666 666 666 666 666 666 666 666 66				1				,		; ;							
	073	950	6 5 5 0 5 6	018	1 5N	191	210							630	1	77	- 1//			N19	600	574	Z (2	- 524 NAA	460	52N	53.1	014		†		!	1		! !				•		-	1984			
	100 60				500 500 500			014			170	- 1			•		900 900 91		i	- 1	-	- 1		610			- 1	6 021		:		ļ					•	-	!		:	112			
÷		B02 500	į				002276 242					100.57.24 26B		i	ì	252 260	1		ı	. !	•	1		1		655 245		545 546 554 555	!	!		1		!	!	:			:	į		41.2			
	076000	200100	7811100	001332	754100 754100	\$ (m/n)n	200	002468	- 402273 402273	N 103	003325	47/5/00	003600	004463	195420	005252	446466	244:00 244:00	006255	7,49970	007293	ļ	648/00 PA	ss	1	009855	01000	010010								1			!		1	4:40			

ATTACHMENT 5
ROCOB OUTPUT FILE

	ROCS 3	
		; i
91657 23560 26553 26026 26032 91208 91135 33545 35529 95041 25030 92643 92287 43509 45504 19029 17024 92118 93808 53502 55506 19019 25026 11549 11515 03392		
25017 91657 91397 26553 29547 26632 29534 91135 92818 25529 9218 25529 25017 92287 92195 45594 49503 17024 16026 93808 93562 25506 25540 11515 22502 27506		
63111 91790 22562 25555 25023 125032 91243 91156 32551 93533 92403 93533 92503 93533 92503 93503 92503 93503 92503 18025 92132 93504 18029 11532 05354 11532 05354 11532 05354		
74794 \$1011 63 72026 24014 9 72026 91467 9 72026 91467 9 731549 05035 9 731549 05035 9 731549 05035 9 731549 05035 9 731540 34517 5 731503 16026 9 73166 93613 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7346 58153 16026 9 7356 7456 7456 9 7357 7456 9 7		
#151 01984 747 22, 22, 23 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
KKK 18151 01984 2054 2003 9777 27016 91556 2455 91437 27554 2465 24055 97117 24055 97117 24056 97755 9117 92469 37555 9204 40514 27045 9710 24057 9710 240		
	PA\$S 2 B-219	

CANAL MANAGEMENT

PAGE

ATTACHMENT 6
PROGRAM LISTING

THE STATE IN READED FROM THE PROBLEM. HIGHER THE HANNING THE STATE IN READED FROM THE PROBLEM.			CANADA TO THE DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE P
ANIA UDE TAKIAS2"		1	THIS 2 IN THE NUCKET REPUBLISH TRUBKAM, UNITURE THE PHRICH ATTECT AND THE TREE (400ER) -FILE,
Dark 1001, 1002, 1003, 1004/1, 23, 34/ College 1003, 1004/1, 23, 34/ College 20, 45/29/0, 47/22/0, 301/22/0, 30/22/0,			AND UNE THATASZE
* 0.14509.0.68697.0.47712.0.30102.0.0, * 1.15491.301021.528972.01 * 2.15492.301022.522872.68972.01 * 3.15492.301022.522872.68972.01 * 4.15491.301022.522872.68972.01 * 4.15491.301022.522872.68972.01 * 4.15491.301022.522872.68972.01 * 4.15491.301022.522872.68972.01 * 4.15491.301022.522872.68972.01 * 4.15491.301022.522872.68972.01 * 1.15401.2.1 * 1.15401.2 * 1.1			` '
* 1.1499.1.301021.52287-1.689792.0. * 2.12492.301021.52287-1.68972.0. * 3.13492.301021.52287-2.68973.0. * 4.13492.301022.52287-2.68973.0. * 4.13492.301023.52287-2.68973.0. * 4.13492.301023.52287-2.68973.0. * 1.14491.301021.52287-2.0. * 1.14491.301021.52287-2.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14401.0. * 1.14101.0. * 1.14			0.84509.0.69897.0.47712.0.30102.0.0.
# 2.155492.301022.522872.6987,-5.09 # 3.15492.301023.522872.6987,-5.07 # 4.154992.301023.522873.6897,-5.07 # 4.154994.301023.522873.6897,-5.07 # 1.15494.301023.522873.6897,-5.07 # 1.15494.301024.522873.6897,-5.07 # 1.15494.301024.522873.6897,-5.07 # 1.1541.30101.1.31.1.1.31.1.1 # 1.15001.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			
# -3.1549, -3.30102, -3.52287, 4.69897, -4.0, # 4.1549, -4.30102, -3.52287, 4.69897, -5.04 DATA INLINITATION OF STANDAY			
ANTIPALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES INTITALIZE THE FILES READ SAVE FILE UNEAN 20. ENDORGENCE TEN-BOLATIET. READ SAVE FILE UNEAN 20. ENDORGENCE THE STANDINDAY, RAWINHONTH, RAWIN * LDTYPE LILE READ C20) THI, TH2, IH1, IH2, RAWINDAY, RAWINHONTH, RAWIN * LDTYPE LILE READ C20) THI, TH2, IH1, IH2, RAWINDAY, RAWINHONTH, RAWINE * LDTYPE LILE READ C20) THI, TH2, IH1, IH2, RAWINDAY, RAWINHONTH, RAWINE * LDTYPE LILE READ C20) THI, TH2, IH1, IH2, IH2, IH2, IH2, IH2, IH2, IH3, IH2, IH3, IH2, IH3, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH2, IH4, IH4, IH2, IH4, IH2, IH4, IH4, IH2, IH4, IH4, IH4, IH4, IH4, IH4, IH4, IH4			
INTITIALIZE THE FILES THELEE "CODEDATA" TYPE (232/34) RELET "CODEDATA" TYPE (232/34) RADINI REDUCTION DISK ON BRIVE I" THELE "CODEDATA" TYPE (232/34) RADINI REDUCTION DISK ON BRIVE I" READ (20) THI, IM2-IM1-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM1-IM2-IM2-IM2-IM2-IM2-IM2-IM2-IM2-IM2-IM2		: ! ! ! ! !	1
THILIALIZE THE FILES THELETE THAMBATATE GENETE TOORDATATE TYPE TOOL TOOL TOOL TOOL TOOL TYPE TOOL TOOL TYPE TOOL TOOL TYPE TOOL THE TOOL TOOL TOOL			HATA INDALABAZOZ
DELETE HANDATA" GELETE "CODEDATA" INTE. (32)334 PAUSE "CODEDATA" READ (23)114 READ SAVE FILE GUEEN 20. "RUCASAVE", LENBOLATE", RAUINHONTH, RAWI * (1DTRE(1).1=1.3).*(\$)14 100.000, 114.1 1142, RAWINHONTH, RAWI * (1DTRE(1).1=1.3).*(\$)14 100.000, 114.1 1142, RAWINHONTH, RAWI * (1DTRE(1).1=2.3).*(\$)14 100.000, 114.1 1142, RAWINHONTH, RAWINHONTH, READ (10.2) READ (10.2) FEAD			MILIALIZE THE FILES
DELETE COMEDATA ROCKET REDUCTION PASS TYPE (12) (136) REGE SAVE FILE DUEN 20. TRUCASAUE. LENBO.ATT="L" REGE SAVE FILE TODIYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (IDTYEE(1) 1=1.3).(S)A10NJU(1).1=1.15).ROCKITHE * (INFUT E (10) 1.12).ROUTPUT TO CONSOLE OR PRINTER (CNS/P FORMAT(42)). * (INFUT RELEASE("DPI", IER)			THE STANDARDS OF THE STANDARD OF THE STANDARDS OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF THE STANDARD OF TH
READ SAVE FILE OPEN 20. TROUGH RECUCTION DISK ON DRIVE IT CALL INITITIES. THE STANDING STAN			"CODEDATA"
READ SAVE FILE READ SAVE FILE READ COJ HIJ HAS THE HAS RANINDAY RAWINHONTH, RAWINYEAR, * (1DTYRE(1). 15.3). 45.81 ALONDAY (1). 15.2 FAST INDY. * (1DTYRE(1). 13.3). 45.81 ALONDAY (1). 15.1 FD. 15.1 AD. READ (1). 45.3). 45.81 ALONDAY (1). 40.1			REDUCITON - PASS DRIVE 1"
READ SAVE FILE UPEN 20. "RUCASAUE", LEM-BOLATIE", READ (20) THIS HIS HIS HIS FAMINDAY, RAWINHONTH, RAWINYEAR, READ (20) THIS HIS FIND HIS FAMINDAY, RAWINHONTH, RAWINYEAR, READ (10) FIRE HIS FEET HIS FEET HIS FAMINDAY, HON LEUSE 20. IF (ISONDE, EG. "88") IND=1 ARTIFETIOL, 1) READ (11,2) INPUT IF (INPUT, EG. "F") GFEN IGU3, "GT7:2", ATT="PL", LEN=221 IF (INPUT, EG. "F") GFEN IGU3, ATT="PL", LEN=221 IF (INPUT, EG. "F") GFEN IGU3, ATT="PL", LEN=221 IF (INPUT, EG. "F") GFEN IGU3, ATT="PL", LEN=221 IF (INPUT, EG. "F") GFEN IGU3, ATT="PL" IF (INPUT, EG. "F") GFEN IGU3, ATT="PL" IF (INPUT, EG. "F") GFEN IGU3, ATT="PL" IF (INPUT, EG. "F") GFEN IGU3, ATT="PL" IF (INPUT, EG. "F") GFEN IGU3, ATT="PL" IF (INPUT, EG. "F") GFEN IGU3, A			1
CUEN 200, RULING, ITEL-BUGGATTELL READ(20) THISTORY INT. INT. FROM INDAY, RAWINHONTH, RAWINYEAR, CLOTYPE (1) 1 12 13 14 15 14 10 10 10 10 12 15 14 15 14 16 10 14 14 14 14 15 14 16 16 16 16 16 16 16 16 16 16 16 16 16			READ SAVE FILE
READ(20) IH. IH2. IH1. IH2. RAWINDAY. RAWINHONTH.RAWINYEAR. * (IDTYFE(1).1=1.3).(\$14) IONJU(I).1=1.15).ROCATIME.ITAY. * (IDTYFE(1).1=1.3).(\$14) IONJU(I).1=1.15).ROCATIME.ITAY. * (IONEH. ITR. GRA F. KE. I SONUE. I GUU3. STANUM. IHON IF (ISONUE. EG. "88") IND=1 KRAD(11.2) INFUT IF (INFUT. EG. "C. "C.") IOU3=10 IF (INFUT. EG. "F.") GFEN IOU3. "GT.2", ATT="PL", LEN=221 IF (INFUT. EG. "F.") GFEN IOU3. "GT.2", ATT="PL", LEN=221 IF (INFUT. EG. "F.") GFEN IOU3. "GT.2", ATT="PL", LEN=221 IF (INFUT. EG. "F.") GFEN IOU3. "GT.2", ATT="PL", LEN=221 IF (INFUT. EG. "F.") GFEN IOU3. "GT.2", ATT="PR") GGIO 160 COMPUTE AND GHTPUT IELETYPE (CODER). DATA CALL RELEASE ("DE.", IER) STGP FORMAT ("C.") 2) FORMAT (A2) END			THE AND COUNTY TO SERVICE OF MESSEL
* (IDITYPE(II).I=).3).(S) A110N1U(I).I=1.15).ROCKIINE.INAY. * MONTH, I'R GRAF, KE, ISONGE, IGU3, STANUM, IHON LLUSE 20. IF (ISONGE.EG. '8B') IND=1 MRITE(10.1) MRI	1		READ (20) IHI, IH2, IM1, IM2, RAWINDAY, RAWINHONTH, RAWINYEAR,
# TOURT 1 THE STREET TOUS STANDED THUS # TOUR 1 THE CLUSE 20. IF (ISONDE, EQ. '8B') IND=1 KEAD (11,2) INPUT IE (INPUT, EQ. 'FR') GFEN IOU3, 'QT(:2',ATT='FL',LEN=22! IE (INPUT, EQ. 'FR') GFEN IOU3, 'QT(:2',ATT='FL',LEN=22! IE (INPUT, EQ. 'FR') GFEN IOU3, 'QT(:2',ATT='FL',LEN=22! IE (INPUT, EQ. 'FR') GFEN IOU3, 'QT(:2',ATT='FL',LEN=22! IE (INPUT, EQ. 'FR') GFEN IOU3, 'QT(:2',ATT='FL',LEN=22! CUMPUTE AND GUTPUT IELETYPE (CODER): DATA CALL RELEASE("DE:',IER) EACH (C'(13) OUTPUT IO CONSOLE OR PRINTER (CNS/PRI): , # 3(C(10)')12} FORMAT(A2) END END	ROC		CIDIYEE (I). FEB. 633. CS141 IONIB(I).
IF (ISONDE, EQ. '8B') IND=1 MRITE(10a, 1) KEGOLIL, 2) INPUT IE (INPUT, EQ. 'FR') GFEN IGU3, "GT/12', ATT="PL", LEN=221 IF (INPUT, EQ. "FR') GFEN IGU3, "GT/12', ATT="PL", LEN=221 IF (INPUT, EQ. "FR') GFEN IGU3, "GT/12', ATT="PL", LEN=221 IF (INPUT, EQ. "FR') GFEN IGU3, "GT/12', ATT="PL", LEN=221 CUMPUTE AND GUTPUT HAMBYA CALL RICHBERGECTINE) CALL RELEASECTORI', IER) STGP FORMAT(C'(13) GUTPUT TO CONSOLE OR PRINTER (CNS/PRT): , * 3(C(10)'), 2) FORMAT(A2) END END	es		TO USE 20
KEAD(11,2) INFUT IF(INFUT.EQ. 'FR') IDU3=10 IF (INFUT.EQ. 'FR') GFEN IOU3, "OT7:2", ATT="PL", LEN=221 IE (INFUT.ME. 'CN", ANN. IMPUT.ME. 'PR') BOTO 160 CUMPUTE AND OUTPUT HAMIATA CALL ETERMIRADENTIME) CALL RELEASE ("DPI", IER) STOP FORMAT ("(13) OUTPUT TO CONSOLE OR PRINTER (CNS/PRT): , FORMAT (A2) FORMAT (A2) FORMAT (A2)	3		IF (ISONDE, EQ. "8B") IND=1
INTERIOR ELAST TOUGH TOUR TOUR TOUR TECHNETIST TO THE CONTROL OF T			KEAD(11,2) INPUT
TECINEUT.NE. "CN". AND. INEUT.NE. PR") GOTO 1GO COMPOSTE AND OSTEUT HAMMATA CALL ETFORMIROCKTIME) CALL RECORDING THE CONSOLE OR PRINTER (CNS/PRI): FORMAT (/ (13) GUTPU) TO CONSOLE OR PRINTER (CNS/PRI): FORMAT (/ (13) GUTPU) TO CONSOLE OR PRINTER (CNS/PRI): FORMAT (/ (10) " 1 2 2) FORMAT (A2) END			IE(INFULED, 'ER') (FE') (FE') (FE') (FE')
COMPUTE AND OUTPUT HAMDATA CALL ETFORMIROCKITME) CALL RUCUBEROCKITME) CALL RUCUBEROCKITME) CALL RUCUBEROCKITME) FORMATICY (13) OUTPUT TO CONSOLE OR PRINTER (CNS/PRT): # 3(2(10)"1.2) FORMATICA (2) END			IE (INFULINE, TONT, ANILINFULT, NET, PR. 1,0010 1,00
CALL ETFORMINE) CUMPULE AND OUTPUT TELETYPE (CODER): DATA CALL RUCHB (ROCKTINE) CALL RELEASE ("DET", TER) STOP FORMAT ("(13) OUTPUT TO CONSOLE OR PRINTER (CNS/PRT): , format (42) FORMAT (42) END			
CALL ETFORMINDENTIME) CUMPUTE AND DUTPUT TELETYPE (CODER): DATA CALL RUCUB(ROCKLIME) CALL RUCUB(ROCKLIME) CALL RUCUB(ROCKLIME) CALL RUCUB(ROCKLIME) FORMAT(//(13)OUTPUT TO CONSOLE OR PRINTER (CNS/PRT): , FORMAT(A2) END			
CALL EUCUBERDENTINE) CALL EUCUBERDENTINE) CALL RELEASE ("DEI", IER) STOP FORMAT ("(13) OUTPU) TO CONSOLE OR PRINTER (CNS/PRT): , FORMAT (A) 1, 2) FORMAT (A2) END			CALL ETFORM (ROCK) IME)
CALL RELEASE ("DP.I.» IER) STOP FORMAT (//(13)0UTPU) TO CONSOLE OR PRINTER (CNS/PRT): , FORMAT (A2) FORMAT (A2)			CUMPITIE AND DUTPUT TELETYPE (CODER): DATA
CALL RELEASE ("DPI", IER) STGP FORMAT (/'(13)UUTPU) TO CONSOLE OR PRINTER (CNS/PRT): 4 3('(10)'1, 2) FORMAT (A2) END			
STOP STOP FORMAT(7.(13)0UTPU) TO CONSOLE OR PRINTER (CNS/PRT): 4 3('(10)'1.12) FORMAT(42) END			
FORMAT(7"(13)OUTPUT TO CONSOLE OR PRINTER (CNS/PRT): , # 3("(10)"1.12) FORMAT(42) END			CALL RELEASE C'DP1" IER)
FORMAT (7'(13)OUTPU) TO CONSOLE OR PRINTER (CN3/PRT): ,			מחומ
FORHAT (A2)			CONSOLE OR PRINTER (CNS/PRT): .
END			FORHAT (A2)
			END
14: 1: 5 29 MAR, 1984 KOCKET REDUCTION PASS #2 - MAIN ROUTINE PAGE		PAGE 1	5 29 MAR, 1984 ROCKET REDUCTION PASS #2 -

	INTIDITY MARKELINE PAGE 10. N. M. MAN. TRANSMATA TENEBURATION TO THE STATE OF THE	######################################	Ι,	SUBBOUTINE ETFORM (BOCNITAF) - JAKELINE THAFBERY - ITHENSTREAST (20) *X4 (20) *Y4 (20) *Y4 (20) *UY4 (20) *Y4 (20) *UY4 (20) *	
	######################################	######################################	4	INITERIT BASELINE RAFA	
				- 0.5 N 1004+19AND464,1FN=80,411="L" GPEN 1002+1APE2",LEN=36 THETT=4494	
	THE ((GRAIN (RE NI) / (RE HI) +5;) 10, THE ((GRAIN (RE NI) / (RE HI) +5;) 10, THE ((L) 11 924, 1) = 10, 273, 15) 1105 THE ((L) 1224, 1) = 10, 273, 15) 1105 THE (LILL 922, 1) THE THE (LILL 922, 1) THE THE (LILL 922, 1) THE THE (LILL 922, 1) THE THE (LILL 922, 1) THE THE (LILL 922, 1) THE THE (LILL 922, 1) THE THE (LILL 12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	INE ((GRAIN(GRAIN))	'	IF=\$9\$99 KEMICIDIZ) REALT TOOLOGE SOUTH TOOLOGE TE SEE SEE SOUTH TOOLOGE	
	WRITE(10:1) TH:IP:II ENDARGICALS FEMEND 10302 WRITE HEAPER DATA WRITE HEAPER DATA WRITE HEAPER DATA WRITE HEAPER DATA AND FICK SIGNIFICANT LEVELS TOWNHILTER FORMITH:IZE CUMPINE TOWN THE TOWN DATA OF THE SIGNIFICANT LEVELS INTITALIZE TOWN THE TOWN DATA OF THE SIGNIFICANT LEVELS INTITALIZE H=0.0 IX=0.0	WRITE (10,1) TH, IP, If KENING TGUI MENTE (1014.5) WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER RAIA WRITE HEADER WRITE HEADER WRITE HEADER WRITE (1014.5) CUMPULITY SUFER LGKI DAIASONUE PANA-10A') SUFER LGKI DAIASONUE PANA-10A') SUFER LGKI DAIASONUE PANA-10A') TO SOO		I HE (GRAIT RE ELH) +5, 7/10, I HE (
	KENINO 1602 WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER TOWN IN THE COLUMNIA WRITE HEADER DATA AND PICK SIGNIFICANT LEVELS WRITELER DATA AND PICK SIGNIFICANT LEVELS WRITELER DATA AND PICK SIGNIFICANT LEVELS WRITELER DATA AND PICK SIGNIFICANT LEVELS WRITELER DATA AND PICK SIGNIFICANT LEVELS WRITELE OLD WRITEL	MENTE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER DAGA WRITE HEADER WRI		WITE (10) I) IH IP If EURHAT (14+IS) IA)	
	WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE COULDAY, 2) (IDTYPE(I), I=1,3), STATIONID, ROCNTHE, IDAY, HONNIH, IYR SUEER LOKI DATASONUE PUN-10A', 7 I2, IX, A4, I4, // SUEER LOKI DATASONUE PUN-10A', 7 CUMPULE 100C HELER DATA AND PICK SIGNIFICANT LEVELS LUNINDALE H=0.0 DITOOLO BILOOLO BI	WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE HEADER DATA WRITE (IDIGA-2) (IDTYPE(I).1=1.3).8TATIONID.RGCNTHE.IDAY. "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE PANHIOAT) "SUBERLICKI DATASONUE "SUBERLICKI DATASONUE "SUBERLICKI DATASONUE PANHIOATIOATIOATIOATIOATIOATIOATIOATIOATIOAT	İ	į	
	WRITE HEADER DAIA WRITE (IGIA+2) (IDITYPE(I)+=1,3),STATIONII,ROCKTINE,IDAY, # TOWIHLING # SUBER LOKI DAIASONUE FUN-10A') # SUBER LOKI DAIASONUE FUN-10A') # SUBER LOKI DAIASONUE FUN-10A') # CUBFUIE 1000 HETER DAIA AND PICK SIGNIFICANT LEVELS INTIALIZE # CUBFUIE 1000 HETER DAIA AND PICK SIGNIFICANT LEVELS # SOO	WRITE HEADER DA(A WRITE COUNTY PECT) 'II'3), STATIONID. ROCKTIME, IDAY. # TONIHILIER FURHATOTIES NUMBER '3A2/15A2/447 'I2'1X*A4.14.// # SUBER LOKE DAIASONUE PUNALIDA') # SUBER LOKE DATA AND PICK SIGNIFICANT LEVELS LUMINUE H=0.0 INFO.0 IN		,	
	#RYTE (10(44.2) (IDTYPE(I).1=1.3).914[IONID.ROGNTHE.IDAY. # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-104.7 # "SLEER LOKE" DATASONGE FUN-105.7 # "SLEER LOKE" DATASONGE FUN	#RITE (10014-2) (IDTYPE (I) -I=1,3) STATIONID-ROCKTIHE, IDAY, # TONIH-IRE FURHATOR BATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * SUEER LOKI DATASONUE PUN=10A-7 * TONITALIZE * NAME OF THE STATE OF THE		WRITE HEADER DATA	
	FURNAT ("TEST NUMBER" "3A2/15A2/44"7 "I2:1X:44:14+// CUMPUTE 1606 HETER DATA AND PICK SIGNIFICANT LEVELS INITIALIZE Helo. INTERIOR Helo. ILE 0.0 ILE	FÜRHAT (TEST NÜHRER "3AZ/ISAZ/44"7 "IZ-1XX-A4-14.// CUMPUIE 1000 HEIER DATA AND PICK SIGNIFICANT (EVELS INIIALIZE CUMPUIE 1000 HEIER DATA AND PICK SIGNIFICANT (EVELS INIIALIZE H=0.0 1		WRITE (I(014,2) (IDTYPE(I), I=1,3), STATIONID, ROCKTIME, IDAY, HONTH, IYE	
	CUMPUTE 1606 METER DATA AND PICK SIGNIFICANT LEVELS LUNTINUE H=0.0 13x=0.0 13x=0.0 11	CUMPUTE 1606 METER DATA AND FICK SIGNIFICANT LEWELS INTITALIZE CUNTINUE H=0.0 IX=0	•	3A2/15A2/A4"7	
	INITIALIZE	INITIALIZE		CUBFITE 1000 HETER DATA AND PICK SIGNIFICANT LEVELS	
*	H=0.0 IX=0.0 IX=0.0 ILE0.0 ICNI=0 ICNI=0 ICNI=0 ICNI=0 ICNI=0 ICNI=0 ICNI=0 ICNI=0 ICNI=0 ICNI=1 IN =1 =1	CINTIMUE	İ	INITIALIZE	
*	H=0.0 1x=0.0 1x=0.0 ILF=0.0 ILF=0.0 ILF=0.0 ILF=0.0 ICNI=0 IFLG=0 IFLG=0 IFLG=0 IFLG=0 IFCI = 1	H=0.0 IX=0.0 IX=0.0 I(P=0.0) I(I		CONTINUE	
•	1 1 2 2 2 2 2 2 2 2	TLP=0.0 LI = 0.0 		H=0.0	
•	ICA 1	ILI 16.00 ILI 16.00		TLP=0.0	
•	JP=0 1BEG=1 1BeG=1 1P=1 1	JP=0 1BEG=1 1BEG=1 1P=1 1P=1 1S=1 SI=2x3.4 10 S1 1=1.20 REACTON(2.E.NP=97) H4(I),X4(I),V4(I),UX4(I),UX4(I),14(I),UT4(I), REACTON(2.E.NP=97) H4(I),X4(I),X4(I),UX4			
*	IP=1	IP=U			
*	I = 1	I E NIE 1 S I = 1 S I = 2 × 3 × 9 Du 51 1 = 1 × 26 R AG (TUUL) E NIE 97) H4(I) , X4(I) , V4(I) , UX4(I) , UX4(I) , 14(I) , UT	1	18Eb=1	
*	DIU 51 1=1.26 REARCIOUZ:ENE-97)H4(I),X4(I),Y4(I),UX4(I),UY4(I),14(I),UT4(I), * F4(I):F4(I) IF(I.G.1.4NP.H4(I).LE.H4(I-1))G0T0 300 IF(I.G.1).LL.J.GD(U_115 IF(I.NE.1)GU(U_12) IF(I.NE.1)GU(U_12) INTITALIZE MAXIMUM AND HINIMUM TEMPERATURES INTITALIZE MAXIMUM AND HINIMUM TEMPERATURES 1:39 29 MAR, 1984 RGCRET REQUEITON PASS #2 - ETFGRM	Du Si 1=1.26 REARCTOUZ.END=97)H4(I),X4(I),Y4(I),UX4(I),UY4(I),14(I),UT4(I), REARCTOUZ.END=97)H4(I),X4(I),Y4(I),UX4(I),UY4(I),14(I),UT4(I), REARCTOUZ.END=17 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I-1))G0T0 300 IF (1.61,Ann,H4(I),LE,H4(I),LE,H4(I),H4	1		
*	READCOUCE.END=97)44(I),X4(I),V4(I),UX4(I),UY4(I),14(I),UT4(I), P4(I).154(I) IF(I.(1.7.4ND.H4(I).LE.H4(I-1))60T0 300 IF(I.(1.7.1.50)60T0 115 IF(I.NE.1)60T0 12 INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES 1.39 29 MAR, 1984 ROCKET REQUESTION PASS #2 - ETFORM	R. AD(JUJ2, END=97) H4(I), X4(I), 10X4(I), UV4(I), 114(I), UT4(I), P4(I), F4(I)		02.121 t2 Du	
IF (1.6(1).1.4). H4(1). LE. H4(I-1)) GOTO 300 IF (H4(I). LL.1.1) GOTO 115 IF (I.NE.1) GOTO 12 IN 111ALIZE MAXIMUM AND MINIMUM TEMPERATURES	F(1.6f.1.4m)	IF (1.06.1.4MP.H4(1).LE.H4(1-1))GOTO 300 IF (1.NE.1)GOTO 115 IF (1.NE.1)GOTO 12 INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES 1:39 29 MAR, 1984 FUGGET REDUCTION PASS #2 - ETFORM	305	Kr. Afr(IU(2): LND=97) H4(I), X4(I), Y4(I), UX4(I), UY4(I), 14(I), UT4(I),	
IF (I.NE.1.) GUTU 12 INITIALIZE HAXIMUH AND MINIMUH TEMPERATURES	IF (I.NE.1) GUTU 12 INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES 29 MAR, 1984 FUCKET REDUCTION PASS #2 - ETFORM	IF (I.NE.1) GOTO 12 INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES I.39 29 MAR, 1984 ROCKET REDUCTION PASS \$2 - ETFORM		ND. H4(I). LE. H4(I-1)) G0TO	,
INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES	INITIALIZE MAXIMUM ANU MINIMUM TEMPERATURES 1:39 29 MAR, 1984 RUCKET REGULTION PASS #2 - ETFORM	INITIALIZE MAXIMUM ANU MINIMUM TEMPERATURES 1:39 29 MAR, 1984 RUCKET REDUCTION PASS #2 - ETFORM		IF (I.NE.1) 601(1.12	
	1:39 29 MAR, 1984 FUCKET REDUCTION PASS #2 - ETFORM	1:39 29 MAR, 1984 ROCKET RECUCTION PASS #2 - ETFORM	i	INITIALIZE MAXIMUM AND MINIMUM TEMPERATURES	
国际"家庭"的专题的是是一个文章,是是一个""",这一个""",这个""",这个""",这个""","","","","","","","","","","","","",	1:39 29 MAR, 1984 ROCKET REDUCTION PASS #2 - ETFORM	1:39 29 MAR, 1984 RUCKET REDUCTION PASS #2 - ETFORM			

....

·			
	(I) + J = X I		
	- JPN=[4(1)		
	15.21		
	J=H4([)/1000,		
1	HI = HL #1000 + 1000.		
ż	JF (fNX-6E, f4(1))60TU 13		
51	IF (IAN. LE. 14(1)) 601(1) 15 ThN=f4(1)		
y n	1822#1 05: 03: 03: 03: 03: 03: 03: 03: 03: 03: 03		
300	CUNTINUE		
36			
	F (18), E0, 182) IF (AG=1CN1=3		
<u>.</u>	NINIHUM TEMPERATURE ROUTINE		
76	IF (IFLAG.EU. 1) GUTU 52		
	IF (IFLAG.EU.3.AND.ICNT.GT.11GOTO.31 TF=1S?		
	1F(11,E0,1)6010 28		
	1F C192, FO. 1. Dix, 182, EO. 116010-27		
PA	IF (ICNF, GE, 1) GOFO 28		RC
	ICNT=ICNT+2		cs
26	HAXIHUM TEMPERATURE ROUTINE	· · · · · · · · · · · · · · · · · · ·	3
3	16 (16) 46, FD, 2) (3)TO 52		
	TE (TELAG.EQ. 3. AND. ICNI. GT. 1160fg 31		
	1)=1Si 1F(11,E0,1)6010 28		
	IFI.A6=2		
	TECTSILEGALORISILEDALDENDO 17		
	IF (ICM), UE, 17 bullu 28		
17	ICNT=ICNT+2		
18	1.55ed	in the second se	
31	IT=I		
	B= E	a see the second	
	2		
;	IEND=IT		
	SELECT A-SIGNIFICANT LEVEL		
7	Contraction of the contraction o		
5	ED. 60 LESTBEGLIEND	:	
14: 11	1:39 29 MAR, 1984 KUCKET REDUCTION PASS #2 - ETFORM	PAGE	· · · · · · · · · · · · · · · · · · ·
		N	
		* Company on the Company of the Comp	
	•		

Trick for taking sign and sign		TO THE TAKE		
Continued Cont	:	!		
		INT I INTE	,	
		1-d1=0		
### (1971) ### (1971)				
######################################	7:	EQUACIENCE BY HENGOTO ST		
79 44(1P) Fed 4(1P) Fed 4(1P) Fed 4(1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Lack (Fed 1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P) Lack (Fed 1P) Fed 4(1P)	Ė	+H4 (1½) / 10•		
Per(11) Per		**************************************		
	X.			
	غ ا	₽₽4(IP))
	-	1 4 (IP)		
	. ii	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		
F (14 (19) GT /99 GOT 41 F (14 (19) GT /99 GOT 41 F (14 (19) GT /99 GOT 41 F (14 (19) GT /99 GOT 41 F (14 (19) GT /99 GOT 41 F (14 (19) GT /99 GOT 41 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (19) GT /99 GT /99 F (14 (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99 F (14 (14) GT /99 GT /99	5			
	11			}
## ## ## ## ## ## ## ## ## ## ## ## ##	7	. (14 (1F):61:978:)6010 41 : ((465(74(1E)-51)). (1:2.)6010 41		
	3			
ST = T(TP) ST				
IETAL CET 4. 100 1		4 (E)		
FETIST GET = 2. JUBIL SA FETIST GET FETIST SA FETIST GET FETIST SA FETIST GET FETIST SA FETIST GET FETIST SA	S	=14(IP)		
F (151, 101, 111, 08, 152, 01, 11) ENDOTS F (151, 101, 111, 111, 112, 112, 112, 112, 11	7	ANT. GE. 2. JUNIO SA		
F (TT, NE, 1) 6010 52	71 3.	(ISL, 0T, IT, 0R, IS2, 0T, IT) IEND=IS1] . 1
FE CIREG. Ed. 1) GATU SSI BOTO SSI Late Lat	 	(IT, NE. I) 6010 52		ROC
Section Sect	#	(1986.Eq. 1) Galo 53		:s
IB=IEND ICAN=1 If = I GUID 54 GUID 54 GUID 54 GUID 11 A HANDAIDRY LEVEL CHIPLID A HANDAIDRY LEVEL H=H/10. X=VALUE (KAT x A (IP=1) x A (IP)) T=VALUE (KAT x A (IP=1) x A (IP)) T=VALUE (KAT x A (IP=1) x A (IP)) T=VALUE (KAT x A (IP=1) x A (IP)) T=VALUE (KAT x A (IP=1) x A (IP)) T=VALUE (KAT x A (IP=1) x A (IP)) T=VALUE (KAT x A (IP=1) x A (IP)) UX=VALUE (KAT x UX A (IP=1) x UX A (IP)) UX=VALUE (KAT x UX A (IP=1) x UX A (IP)) UX=VALUE (KAT x UX A (IP=1) x UX A (IP)) UX=VALUE (KAT x UX A (IP=1) x UX A (IP)) UX=VALUE (KAT x UX A (IP=1) x UX A (IP)) IF IE IE E D x IE B GUID 115 CALL CUDIT SI= [4 (IP)		ITO SA		3
IENN=1 If = I Gul 0 54 Gul Pul		22.15.15.		
IT=1	# ; - -	INDE 1		
Eulo 54 CulPill & Hannaldry LEVEL R&f = (H1 -H4 (IP)) / (H4 (IP-1) -H4 (IP)) H=H1/10, A=VALUE (RAT x4 (IP-1) x4 (IP)) T=VALUE (RAT y4 (IP-1) y4 (IP)) T=VALUE (RAT y4 (IP-1) y4 (IP)) F=VALUE (RAT y4 (IP-1) y6 (IP)) F=VALUE (RAT y4 (IP-1) y6 (IP)) UX=VALUE (RAT y1 (IP-1) y6 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP)) UX=VALUE (RAT y1 (IP-1) y1 (IP))	1		The second secon	
Dulpul a Hannaldky LEVEL R&f = (H1 - H4 (IP)) Z (H4 (IP-1) - H4 (IP)) H = H1 / 10, H = H1 / 10, T = VALUE (RAT x 4 (IP-1) x 74 (IP)) T = VALUE (RAT x 4 (IP-1) x 74 (IP)) T = VALUE (RAT x 6 (IP-1) x 74 (IP)) F = VALUE (RAT x 74 (IP-1) x 74 (IP)) V = VALUE (RAT x 14 (IP-1) x 14 (IP)) V = VALUE (RAT x 14 (IP-1) x 14 (IP)) V = VALUE (RAT x 14 (IP-1) x 14 (IP)) I = VALUE (RAT x 14 (IP-1) x 14 (IP)) I = VALUE (RAT x 14 (IP-1) x 14 (IP)) I = VALUE (RAT x 14 (IP-1) x 14 (IP)) I = VALUE (RAT x 14 (IP-1) x 14 (IP)) I = VALUE (RAT x 14 (IP-1) x 14 (IP))		110 54	! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	
RAF=(H1-H4(IP))Z(H4(IP-1)-H4(IP)) H=H1/10. H=H1/10. H=H1/10. H=H1/10. H=H1/10. H=H1/10. H=H1/10. H=H1/10. H=VALUE (RAT,Y4(IP-1),74(IP)) H=VALUE (RAT,P4(IP-1),F4(IP)) H=VALUE (RAT,P4(IP-1),P4(IP)) UX=VALUE (RAT,U4(IP-1),UX4(IP)) UX=VALUE (RAT,U4(IP-1),UX4(IP)) UX=VALUE (RAT,U74(IP-1),UX4(IP)) UX=VALUE (RAT,U74(IP-1),UX4(IP)) UX=VALUE (RAT,U74(IP-1),UX4(IP)) LETIELED. HENDID 115	THE STATE OF THE S	LIPITA HANDGIDEN LEVEL		
hellon hellon		factor unitary contracts on the contract of th		
X=VALUE (KAIs X4 (IP=1) , X4 (IP)) f=VALUE (RAI, Y4 (IP=1) , 74 (IP)) I=VALUE (RAI, Y4 (IP=1) , 74 (IP)) F=VALUE (RAI, F4 (IP=1) , F4 (IP)) F=VALUE (RAI, Y4 (IP=1) , P4 (IP)) IX=VALUE (RAI, V4 (IP=1) , V4 (IP)) IX=VALUE (RAI, V4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP)) IX=VALUE (RAI, V1 4 (IP=1) , V1 4 (IP))	: [11 - (D.1 D.2 (L.1.) / (D.4 (L.1.) / T.5 (L.1.) /	The state of the s	
f=VALUE (RAI, Y4(IP-1), 74(IP)) I=VALUE (RAI, T4(IP-1), 74(IP)) F=VALUE (RAI, F4(IP-1), F4(IP)) F=VALUE (RAI, F4(IP-1), F4(IP)) UX=VALUE (RAI, UX4(IP-1), UV4(IP)) UY=VALUE (RAI, UX4(IP-1), UV4(IP)) UY=VALUE (RAI, UX4(IP-1), UV4(IP)) UF=VALUE (RAI, UX4(IP-1), UV4(IP)) IE(IL-EQ. IE)GUID 115 LALL CUDIT Sl=[4(IP)]	-U			
F=VALUE (KAT, F4 (IP-1), F4 (IP)) F=VALUE (KAT, F4 (IP-1), F4 (IP)) UX=VALUE (KAT, F4 (IP-1), F4 (IP)) UX=VALUE (KAT, UX4 (IP-1), UX4 (IP)) UX=VALUE (RAT, UY4 (IP-1), UX4 (IP)) UY=VALUE (RAT, UY4 (IP-1), UY4 (IP)) UY=VALUE (RAT, UY4 (IP-1), UY4 (IP)) UY=VALUE (RAT, UY4 (IP)) UX=VALUE (RAT, UY4 (IP)) UX=VALUE (RAT, UY4 (IP)) UX=VALUE (RAT, UY4 (IP))	- L			!
F=VALUE (KAT,F4(IP-1),F4(IP)) UX=VALUE (KAT,UX4(IP-1),UX4(IP)) UY=VALUE (KAT,UX4(IP-1),UX4(IP)) UY=VALUE (RAT,UT4(IP-1),UY4(IP)) IETIE_E0.1E)GUIO.115 LALL CUDIT S]=[4(IP)	1 1	VALUE (RAT, PA (IP-1), PA (IP))		
UX=UALUE (KAI-UX4(IP-1), UX4(IP)) UY=VALUE (KAI-UY4(IP-1), UV4(IP)) UT=VALUE (RAI-UT4(IP-1), UV4(IP)) UT=VALUE (RAI-UT4(IP-1), UV4(IP)) UT=VALUE (RAI-UT4(IP-1), UV4(IP)) UT=VALUE (RAI-UT4(IP-1), UV4(IP)) UT=VALUE (RAI-UT4(IP)) UT=VALUE (RAI-UT4(IP))	F	WALUE (KAT, F4 (IP-1), F4 (IP))	: 1	
UT=VALUE (RAIJUY(IF-1), UT4(IF)) UT=VALUE (RAIJUT4(IF-1), UT4(IF)) LEITE-EDEJBUID 115 LALL CUDIT S]=[4(IF)	X)	=UALUE (RAT, UX4(IP-1), UX4(IP))		:
SI=[4(IF)	Xn			
באבר בעמוז בא=(4(1P)	; 1			
SI=[4(IF)				
S) = [4 (IP)	Liá	LL CUBIT		;
	5	(01/7)		
	ā			1
	- 1			

MAJEST LEGIL LOG	Charles And Proxit reserves			1	
MACKSWEE JULY	THE PROPERTY OF THE PARTY OF TH		The second secon	AMERICAN III. AMERICAN III. AMERICAN III. AMERICAN III. AMERICAN III. AMERICAN III. AMERICAN III. AMERICAN III.	
START CONSTRAIN PRESSURE LERRES START CONSTRAIN PRESSURE LERRES START CONSTRAIN PRESSURE LERRES START CONSTRAIN PRESSURE LERRES START CONSTRAIN PRESSURE LERRES STATE ST	#ACKSFACE 10U2 BACKSFACE 10U2 READ(10U2) H.X.Y.UX.(YY.T.U) H=H/10.	ال د د د د د د د د د د د د د د د د د د د	· · · · · · · · · · · · · · · · · · ·		
### CANSTANT PRESSURE LENELS ### REALCHULD HILLY MAINTAINTAIL HE HELS ### REALCHULD HILLY MAINTAINTAIL HELS ### REALCHULD HILLY MAINTAINTAIL HELS ### REALCHULD HILLY MAINTAINTAIL HELS ### REALCHULD HILLY MAINTAINTAIL HELS ### REALCHULD HELS WAS AN IN THE HELS ### REALCH WAS AND IN THE HELS ### REALCH WAS AND IN THE HELD ### REALCH WAS			THE REAL PROPERTY AND ASSESSMENT OF THE PARTY OF THE PART		
STAKT CINETANT PRESSURE LEVELS	REMINI 10012			; ; ;	
RADICIOUS PRINTALITY ALIVATION TAIL OF THE PER	START CONSTANT PRESSURE LE				
TEPL (LIB 2) A CONTINUE A	1	IlliUliPliE1			!
10 12 12 12 12 12 12 12	200 KEAU (LUUZ)-END=206) H2 XZ, YZ 201 E (P., GE, 99%,) Gill 0 204 YE (J. EG, 24, OR, J. EG, 29, OR, J. EF (O., 20, OR, J. E. E. E. E. E. E. E. E. E. E. E. E. E.	.EQ. 34) GOTO 202			
GUID 201 X1242 X1242					
UTI=UTZ UTI=UTZ UTI=UTZ UTI=UTZ UTI=UTZ F=PZ F=PZ F=PZ F=PZ F=PZ F=PZ F=PZ F=P	Y1=72				
11-6172 11-627 1	UK1=UK2 11-70				s 3
F1=F2 (i)11 266 RAT=(FL(J)-F2)/(F1-F2) H=VALUE (RAT*1.1.2) Y=VALUE (RAT*1.1.2) Y=VALUE (RAT*1.1.2) VX=VALUE (RAT*1.1.2) VX=VALUE (RAT*1.1.2) VX=VALUE (RAT*1.1.2) VX=VALUE (RAT*1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) VX=VALUE (RAT*1.1.1.2) CONVERT GEOMETRIC HEIGHT TO GEOPUTENTIAL HEIGHT CONVERT GEOMETRIC HEIGHT TO GEOPUTENTIAL HEIGHT VALUE (RAT*1.1.1.2) CONVERT GEOMETRIC HEIGHT TO GEOPUTENTIAL HEIGHT VALUE (RAT*1.1.1.2) CONVERT GEOMETRIC HEIGHT TO GEOPUTENTIAL HEIGHT VALUE (RAT*1.1.1.2) CONVERT GEOMETRIC HEIGHT TO GEOPUTENTIAL HEIGHT VALUE (RAT*1.1.1.2) CONVERT GEOMETRIC HEIGHT TO GEOPUTENTIAL HEIGHT VALUE (RAT*1.1.1.2) VALUE (RAT*1.1.2) VALUE (RAT*1.1.2	UTI=UT2 BI-B:				
RAT= (FL (J) -F2) / (F1-P2) H=VAI UE (RAT: H1 : H2) Y = VAI UE (RAT: V1 : X2) Y = VAI UE (RAT: V1 : X2) Y = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI UE (RAT: V1 : V2) VX = VAI VE (RE * H) / (RE * H)	61=12 63170 900				
X=VALUE (RATIXI) Y=VALUE (RATIXI) UX=VALUE (RATIVI) UX=VALUE (RATIVI) (V=VALUE (RATIVI) Y=VALUE (
UX=VALUE (RAT.UX1,UX2) (IY=VALUE (RAT.U1,UX2) IY=VALUE (RAT.U1,UI2) IY=VALUE (RAT.U1,UI2) F=VALUE (RAT.U1,UI2) F=VALUE (RAT.U1,UI2) F=VALUE (RAT.U1,UI2) CONVERT GENHETRIC HEIGHT TO GEOPOTENTIAL HEIGHT H=GRAT* (RE*H)/(RF+H)/10. CALL CUD.I GALL CUD.I GALL CUD.I CALL CUD.I 139 294 CLOSE IGU2 1:39 29 MAR. 1964 RGCKET REDUCTION PASS #2 - ETFORM	X=VALUE (RAT, VI, V2) V=UAI IF (RAT, V1, V2)		The state of the s	1	
THE YOLUE (RATITION TO THE YOLUE (RATITION TO SEOPUTENTIAL HETOHT FEVALUE (RATITION)	UX=VALUE (RAT, UX2)				
IN-VALUE (RAT. FL.F2) F=VALUE (RAT. FL.F2) CONVERT GEOMETRIC HEIGHT TO GEOPOTENTIAL HEIGHT H=GRAF* (RE*H) / (RF*H) / 10. CALL CUDII CALL CUDII CALL CUDII 1:39 29 MAR, 1964 ROCKET REDUCTION PASS #2 - ETFORM	(Y=VALUE (KAT, U)), UY2) F=VALUE (RAT, T1, F2)			•	,
CONVERT GEOMETRIC HEIGHT TO GEOPOTENTIAL HEIGHT H=GRAFA (RE*H)/(RF+H)/10. CALL CUDIT CALL CUDIT CALL CUDIT 19010 294 CLOSE IGU2 L:39 29 MAR, 1964 ROCKET REDUCTION PASS #2 - ETFORM	F=VALUE (RAT, U11, U12)				1
H=GRAT* (RE*H) / (RF*H) / 10. CALL CUDIT CALL CUDIT CLOSE IGU2 CLOSE IGU2 1:39 29 MAR, 1964 ROCKET REDUCTION PASS #2 - ETFORM	CONVERT GEOMETRIC HEIGHT	NITAL			
P=PL(J) (GALL CUD).[(BUT0 204 CLUSE 1002 LLUSE 1002 L:39 29 MAR, 1964 ROCKET REDUCTION PASS \$2 - ETFORM	H=GRAT* (RE*H) / (RE+H) /10.			! :	!
CALL CUDIT 19.10 294 CLOSE 1042	P=PL(J)			1 :	
19J10 294 CLOSE 10U2 1:39 29 MAR, 1964 ROCKET REDUCTION PASS \$2 - ETFORM	CALL CUDY T				
1:39 29 MAR, 1964 ROCKET REDUCTION PASS \$2 - ETFORM	BUTO 204 CLOSE TOUZ			•	
1:39 29 MAR, 1964 ROCKET REDUCTION PASS #2 - ETFORM				1	
	1:39 29 MAR, 1964	PASS #2 -	PAGE 4		

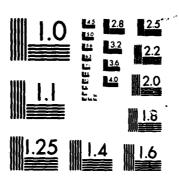
, <i> </i>	
Ci OSE TOUA	
PA	
55	CS
2	3
14: 1:39 29 AAR, 1984 ROCKET REDUCTION PASS #2 - EFFORM	PAGE E

DIMENSION IS(9) INTEGER (4)1(3)		
DATE 187	(A) IS (A)	•
187.		
TE (O) UND.	IA(A 187'+4', '+2','+1','+0','-1','-2','-2','-3','-4','-4','-4',' TEND(A)=TCTV(CTON(ASS(A)+ 4),-A)	
IF (PH.EQ.	AND THE CONTROL OF TH	
DIREBUTECKAY	(44)	
(A·X) GASM=GAS	(1.7.1)	
Y=000%.	1E.454.L. YXX+.Lbulu 102	
6655EX		
・ゲゲケゲ=XII		
UY#99994		
1.12 X=-X		
Y0-=X1		
IIY=-UY		
106 IF CT. LES	IF(I.L.C.999.) GG/U 1018	
1=9999.		
105050		
6010103		
TOB CONTINUE		
VS=331.45	VS=331.45#SQR[(1/223,15)	
11=1	š	
	33.15	
		RO
9.169 FS=DS=94.901.8	できたかか。 できたかかか。	cs
TALLANDO	15 (17. M. 0204.) TOE (02. 17. M. 14. 17. M.	3
DEFS	85.017.17.00	
Ne(
54 I O 1 10 I I 1 1 2	11.2	
D=D+,000009	699	
B=1000		
C=, 001		
0=01		
IF SD. LE. ?	IF (P.LE, 99.260TQ 2	
666.9=I		
G070 5		
IF CD. LE. A	IE (D. LE. A. AND. D. GE. A) GOTO 3	
GUTO 4		
IC=IC+1		
n= μπι. K=1S(1C)		
6070 5		!
A=A/101		
H=R/10.		
17年17日7日		
6010 2		
	1	
14: 2:42 29 HAR,	, 1984 RUCKET REDUCTION PASS #2 - CODIT PAGE	
(\$) (\$)		Ţ,

1	CEAL FOR INCOME.	
! ; ;		
	1.2.1.	
ç	FS:0	
	A Link A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
. 07	N=to CONTINUE	
	CAN DESCRIBE THE CONTROL OF THE CONT	
	WHIT FET LENG (IDIN, 3, DUT (I)) WHITE (1814 + 110) INDICH), DUT, IRDIC(SED), IRND(UX), INTROC(Y), IRND (ASS(F)), IRND(C), IRND(C), FRA, IRND(C), IRND(ASS(F)), IRND(ASS(F)), IRND(C),	
911	1KNH(US) FORMAT(IS-311-13-414-13-14-13-2 (FS. 3-	,
	EH-H-L	!
	END	
		!
ĺ		
PAE - 2		
		ROC
2		S 3
:		
		!
		•
14: 2:42	2 29 HARY 1984 RUCKET REDUCTION PASS #2 - COOLT	
	cı.	Martin and the state of the sta

		1
· .	SUBFOUTINE RORAWIN	•
:	INTEGER OUTAKRAT(22)	
 	READS CO-KAMINSONDE DATA FOR INPOT TO THE ARCHIVING AND FUBLICATION FORMATTING PROGRAM, GUTFUTS MANDATORY AND	
: ون د: :		
	WRITE (1014.1) (STATIONIE(1).1=1.15). THI. IH2.IM2.RAWINHAY.	The state of the s
<i>-</i> :	FURHA! (4X+'01'7//3542/411'Z'2X+I2+1X+64+1X+14/)	
 	OPEN HANDATOKT FILE, WRITE HANDATORY COLUMN HEADINGS, READ AND WRITE HANDATORY DATA.	
دز		
21	FORMER ("ALT HI WILL HPS TEMP DEW PT PRESS RH",	
1	OPEN 5. TPP: HANDATORY", ATT="R", LEN=24	! ! ! ! ! ! ! ! ! !
4	LU 100 1=1,300 KEAROSENN=110)XH,1XD,1XS,X1,XDP,XP,XRH VH=VLAA, TAAR	
	IXH1=XH/100. IXH1=XH/100.)	
1	JY=XV#10. JT=XV#10.	
	TABLESON CONTRACTOR CO	
PASS	CALL TSIGN(JF,Jf1). CALL TSIGN(JF,Jf1).	ROCS
232		
	CALL LEFTZERO(IXD.3.GUIARRAY(Z))	
	~ ~	
}	CALL LEF (ZEKO (JTD) 2) GUTARRAY (16))	
	CALL LEFTZERO (IXF. 5. DULABRAY (19))	
:50	MATTE (1504) 33 (9016) 34 (4) + 11.26) FORMA (401) 3X, 311, 2X, 311, 3X, 211, 11, 12, 11, 11, 12, 11, 11, 12, 11, 12, 11, 12, 12	
\$ 00 c		
- - - - - - - - -		
· · · · · · · · · · · · · · · · · · ·	OPEN 5, TRISIGNIFICAN, ATT = "R", LEN=28	
4	FANNER ("AET MT WHIR MPS TEMP HEW PT PRESS IR",	
;	nd 260 1=1,300 .KEAD (SFEND=210) XH/IXD/IXS/XT/XDP/XP/RIR/KH	
14: 3: 6	6 29 MAR, 1984 KOCKET REDUCTION PASS #2 - RORAWIN	

								!	!								1								R:	•	s	3	
					ı										:				1111							1 1		,	
		1					:														:								
																						., K1, 4X, 611,							!
		!								RAY (1))	KAY (5))	AT (7))	A1 (101)	Y (13))	1	AT(16))	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RAT(19))	KAY (23.1)	1(25))	J=1:27)	(,211							
3048	IXHI=XN/100. IXH2=AMOH(XH:100.)	1XX=1XX8+0+534/42	,	.00	/100.	EXE2-AHODICXP+100+)		CALL FSIGNCJF,JTD	(sight) to the state of the sta	LEFTZERO(TXHI,4,GUTARRAY(1))	LEF (ZERU (1XH2,2,001) ARKAY (5))	LEF rzeko (IXD, 3,6UTARRAY (?))	CALL LEF (ZERUCIXS.3.00) ARRAY (10)	CALL LEF FZEKO (JT+2+0UTAKRAY (13))	DUTAKKA) (25) #J i	CALL LEFTZERO (JTD, 2, GUTARRAY (16))	OUT AKRAY (18)=JI III	CALL LEFIZERO(IXPI,4,OUTAKRA/(19))	CALL_LLETZERU CINRZ, Z, UUTARKAY (23))	CALL LEFIZERO(18,3,0UTAKRAY(25))	WELTE (IDU4,5)_(QUI) ARRAY (J), J=1,27)	FORMAT(611,3X,311,2X,311,3X,211,R1,5)	2X,3II.f78e.1.1.	ĮĮ.					
XH:: KH+0. 5048	IXHI=XNZ100. IXH2=AMOD(XH	348XT##X	*) [#.4[X-1] []	XF=XF*100.	1XF1=XF/100.	EXF2-AM	1R-K1K	CALL FS		CALL LE	CALL LE	CALI. LE	31 119:1	CALL LE	DUI AKKA	כשרו וב	DUTAKRA	CALL LE	מור רד	CALL LE	TT 31 LETI	S FURMAT	* 2X, 3II.	200 CONTINUE		END		1	



MICROCOPY RESOLUTION TEST CHART
NATIONAL BURYAN OF STANDARDS-1963-A

Direction Dire	SUBSCRIPTINE RUCOB (ROCK CAE)		
Indicate static (co.) indicate co) indicy is present and indicate static (co.) indicy is constructed and indicate static (co.) indicy is constructed and indicate static (co.) indicy indicate static construction (co.) indicat	DINCHOLL DAILOS (A) PPP (A) - HICA) - IN) INT (3.4)		-
Trial interest Tria	INTEGER (5) * DOFFE (5) * NUFFE (5) * NUFFE (6) * NUCKO OF	UF(1200)	
Mark Chillian 12 12 12 12 12 12 12 1	FINIS, WOKEZ, FALSE, 107		
NATION CAN INTERCEDENT 12-13-13-13-13-13-13-13-13-13-13-13-13-13-	(INTIND(I.2), I=1,3)/		•
INMITION = FED. SEGMENT. LENGTH CARD AND THE TOWN THE TOW	/(E4T=14(E41)(INI(IN))/(E4T=14(E4T))/(E4T)	,	
	(4) = 15 (4) (8) (8)		
University Uni		,	•
FERTITIONED AT THE RUGINNING UP THE 1000 WEER DUTYOUT FERTITIONED AT THE RUGINNING UP THE 1000 WEER DUTYOUT FERTITIONED THE 121/AFF9.43 FIGURE 22	Uren IOU4, "CODENATA", LEN#86,411#"L." UPEN IOU1, "KOCKETOUT", LEN#80,417#"L		İ
TOP TOP	~	J.	
Turner Control Contr	READ (10(1) + 10(1) + Du (1) + FFF (1) + 1 ((1) +	. ! :	1
100 2 2 2 2 2 2 2 2 2			:
LICENTINE CUNTINE TEST-SECTION 1000-1000-1000-1000-1000-1000-1000-100	7		
St. St. F. St.	26 CUNTINUE	The state of the s	
Filter F	LO 35 IPMER-1601. ITOP REDUCTION - 10.00. END. TO HAT DEAD OF DECEMBER		
FUREST = ADDIT ADD	# II (IPMIR) LEEP (IPMIR)		
If (168) (16. 6. 9) 000, 17 (170 170			Rd
* TT CIMULTA THE ** TY CIT TO THE THE TO THE THE TO THE THE THE THE THE THE THE THE THE THE	IF (1ES). 01.0.9) 0010 30		cs
FUNDA - KENE	Tr (IPNIR) . NE. 999. UR. FF (IPNIR) . NE. 999. Tr (IPNIR) . NE. 999. 99) G010 35		3
IF (IT 10 12 12 13 14 14 15 15 15 15 15 15	FINIS=, IRUE.		
GUITO 36 GUITO 36 CONTINE DI 14 INUXELITURE DI 15 INUXELITURE HH711 - HEIGHT 1 EMP INVICATOR AND TEMPERATURE I F (TT (RUX) - 1979;) GO TO 10005 WORKFIT (RUX) - 273.15 IT = 10 - 1979;) GO TO 10005 I F (TT (RUX) - 273.15 I F (TT (RUX) -	IF (ITGF2,LT,1) 60TO 17		· .
DN 16 INUX=1/110P2 HH271 - HEIGHT, 1EHP INVICATOR, GND TEMPERATURE JF (T(TINUX), G1,998,) GOTO 10065 NOWATH (MUKEY) LT = 16 - 99 1Z= 5 IF (II, GE, 0) IZ= 0 HH271 (3) = 17 HH271 (4) = 17 HH271 (5) = 7 HZ			
HHZ11 - HEIGHI, 1EMP INVICATOR, GND TEMPERATURE JF (TT(INUIS), G1,998.) GOTO 10065 MOKKET TT (INUX), G1,998.) GOTO 10065 MOKKET TT (INUX), G1,998.) GOTO 10065 MOKET TT (INUX), G1,998.) GOTO 10065 MOKET TT (INUX), G1,998.) GOTO 10065 MOTO TT (INUX), G1,998.) GOTO 10065 MOTO TT (INUX), G1,998.) GOTO TT (INUX) M	Wei-Timp2		:
If (f (I (I NUIX), 01, 99%) Gauto 10065 Mokef F f (I (INX) - 273.15 Mokef F f (I (INX) - 273.15 Mokef F f (I (I X) - 29.17 Mokef F f (I X) - 99.17 Mokef F f (I X) - 99.17 Mokef F f (I X) - 17 Mokef F f (I X) - 17 Mokef F f f (I X) - 17 Mokef F f f (I X) - 17 Mokef F f f f f f f f f f f f f f f f f f f		the state of the s	•
[2= 6 15 17 16 17 17 17 17 17 17	JF (ff (INDX), 61,99%,) 00TD 10005 WGKKF=ff (INDX)-273,15 TT=TDMI/(M65/T)		
17 (11 bb. 772) 1			
HH211(3)=1Z 11=1A6S(1T) HH211(5)=1/(10+60K HH217(4)=1/(10+60K 505 HH277(5)=1/ HH217(4)=1/			
HHZTIJSE = HID (I) 100 + 60K HHZTIJSE = HID (I) 100 + 60K GÜTO 1606/ 05 HHZTICS = / HTZICS = / HHZTICS = / HZTICS = /	;	·	
HHZT(4)=1(/10+60K 6010 1406/ 05 HHZT(5)= / HHZT(5)= / HHZT(4)= / 3441 29 MA (*) 1984 RGCKET REDUCTION PASS #2 - RGCOB	HIZI1251 = HUD(I) 100 + 60K		
05 HHZIT(4)= // HHZIT(4)= // 3441 29 MA(*) 1984 RGCKET REDUCTION PASS #2 - RGCOB	HHZTT(4)=1 f/10+60K		
HHZTT(4)= /* 344 29 MA () 1984 RUCKET REDUCTION PASS #2 - RUCOB 1			
3141 29 MA (*) 1984 ROCKET REDUCTION PASS +2 - ROCOB	HIZTT(4)=' /'		
	29 MA () 1984 ROCKET REDUCTION PASS #2 -	PAGE	
		1	*
			(S)

•	HHZ II (3) = 1 / 1				
10000	IM-IM (INDX) / 1000. HHZ11(2) -400(IM-10) +60n				
	- HHZ11(1)=1HZ10+60N	•		: !	
د د چه د ا	HAFFE WIND DIRECTION AND SFEED				
ن ا ا	11 (PEF CINED) (61 - 998) (611) 1 (100)				:
	•				
		:	1		
† ;	Blir FE (4) =httld CLWürnF + 10) +60N genetic (2) = thisteric / (5) 4.50k				
;	ENTER AS - INCINE A LONGON				İ
11001					
	(HFFF (3) = " / "			THE PARTY OF THE P	
10018	H (nd (IND.), 67, 998) 60fg 16668				
	[WOKKD=DD(INDX)+5. 11 (140)880. (3) : 240) 14038014 (40)8604-346				
	(MORND=INGRND/10				
	LIF (LUINKAI) EU O INCKAINES				
	DEFT F (2) = MUDICIMURAD 10) + 50N TOFF FF (1) = THORNIV10+50N				
	! ! !		•		1
HODD	Ulte EF (2) = / .				
٤	DDFFF(1)="/"				
ت	NIFPF - GROUP INDICATOR, POWER OF 10	INDICATOR, AND DENSITY	SIIY		F
A5:	Mission (1)				ioc
	IE (PEP (INDX) AGE 598.3 GO TO 10016		: : : : : : : : : : : : : : : : : : : :		s
•	TESTP=166.				3
	00 10014 IE=1.10				
	IF (PPF (INDX), GE, FESTP/GUIU 10015 FESTP=FESTP/ID.				
3 000 4	CONTINUE				Annua depart a . manu
	91001 0000	:			1
5000:					
	IP=IP+66K		1		
	NGFPP(2)=IP				* * * * * * * * * * * * * * * * * * * *
	NIPPP (5) #MOD (IMDRAIN) +60N THORKOHTHIRKO/10				
	NIPPE (4) = MOII (1WORNII) 10) + 60K	:		•	
	NIPEP (3)=IMDRKO/10+60K		1		
10016	NGFF (5) = ' / '				İ
	NDPPP(4) = 7				
1	NDFFF(3) = 7.				•
15	CONTINUE	:	:		
	Jul 260 1=1+5				
200		:			
	LO 210 1=1,5				
1					
14: 3:4	1 29 MAK, 1984 ROCKET REDUCTION PAS	55 #2 - RUCO8	PAGE		
			74		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
:					!

777	. (Id.) (WaKD) # DIN F (1.)	
	60 220 141,5	
	MUNIDE WUNDER	•
220	00 (WGRD - GREEF (I)	
, A.L.	CONTINUE	
	15 (09.1	
	0.0001	
	(FC. NOC. FINIS) GOLD SA	
>	De Carlos	
 -	FORMAL(TA)	
•		
1	OT/12: 12: 12: 12: 12: 12: 12: 12: 12: 12:	
	AK 3.	
1	1F (S) ANIM. ED. 1) NN = 2	
	IF (STANUA, EQ. 9) KK=3	
	4	
	NYTHYR-1000	
	CALL LEFTZERICTES. 2. DD (3.)	
!	CALL FELTERALISM TO THE CONTRACT OF THE CONTRA	
	CONT. LEFT LEED YEAR OLD STANDARD CONT. CO	
١.	COLL LET I LENU I AND 1817 I DE 1817	:
נ	BR11E (11h13, 2000a)	
1	TATIONAL PROPERTY CONTRACTOR OF THE PROPERTY O	
20002		
1	WALLE (1003) 200022 (III (1)) 1=1,73 on 1 (IN INII (1) N.) 1 = 1,53	•
	=1,7,4NY7,(I	
70007	FURMAL (42) KKAX "SII:1X:2II:13:3R2" 91011 63111")	
ပ		
	I Bt. 65.	1
P	TEND=50	
300	WRITE (1003, 20001) (001 (1), I=INEG, LENI)	
SS	WRI FE (1604, 20001) (001 (1), 1=16EB, 1END)	
}		
2	CNACATION	
	(F.CEND, ST. MIRD) JEMIEDON	
	IF (I BEG. I. T. MIRRO) GOTO 300	
20001	FOWHOR CASH SECTION STATES AND ST	
*		
	190.3	
	The second secon	
,	CALL HANDL	
ပ		
P	H2) TF (TRIF)	
20003	### ##################################	
7	700 (3)	
:	THE LONG THE COLUMN TH	

14: 3:41 29 MAR, 1984 RUCKET REDUCTION PASS #2 - KUCUB

PAG

PAGE

Studentine American Section		
WINDER CONTINUES AND STATES OF THE STATES	9 m d G 2	
Park SURTING	0 d m# g	;
Check 100.17.10.7.10.7.10.7.10.10.10.10.10.10.10.10.10.10.10.10.10.	0 1 104 4 4	
Fig.		
RADICULD. H. A. H. H. H. H. H. H. H. H. H. H. H. H. H.		
READCOLOGY HAND TO THE PLANT TO THE PROPERTY OF THE PROPERTY O		
Tricks T		
	F (F2, bE, 978.) bDTO 100 F (F2, bE, 978.) bDTO 100 J= J+1 bDTO 100 F (PL (J), 6f, P2) 6DfO 105 A1=X2 A1	1
1-10	J=J+1 J=J+1 6010 100 IT F (PL (J), 6f, P2) 60f0 105 II = P2 V = Y2 GOTO 100 RATE (PL (J) - F2) 2 (P1 - P2) H=VALUE (RAT + H1 + H2) Y=VALUE (RAT + H1 + H2) Y=VALUE (RAT / H1 + Y2) T=VALU	
We will start for the proof to the proof t	TF (PL(J), Gf, P2) GDf0 105 A1 = X2 A1 = X2 A1 = X2 A1 = X2 A1 = Y2 A2 = Y2 GDf0 100 RATE (PL(J) - F2) Z(P1 - P2) H=VALUE (RAT + H1 + H2) X = VA1 UE (RAT / 11 + Y2) T = VA1 UE (RAT / 11 +	
11 12 13 13 13 13 13 13	H1 # H2	,
	Y1EY2 F1=T2 F1=T2 G0T0 100 RATE (EL (J) - F2) Z (P1 - P2) H=VALUE (RAT + H1 + H2) X=VALUE (RAT + H1 + H2) X=VALUE (RAT + H1 + H2) Y=VALUE (RAT + H1 + H1 + H2) Y=VALUE (RAT + H1 + H1 + H2) Y=VALUE (RAT + H1 + H1 + H1 + H1 + H1 + H1 + H1 + H	
T = 12 T	F1 = T2	
Will 100 Will 102 Will 102 Will 103	60f0 100 RATE (EL (J) - F21 Z (P1 - P2) H=VALUE (RATALX2) Y=VALUE (RATALX2) Y=VALUE (RATALX2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) 1=VALUE (RATALY2) SFD=V5999 Halfu 206 X=-X Y=-Y	
NAMERICAL (J. 1972/RP-1972)	RATE (PL (J)-F2) Z(P1-P2) H=VALUE (RATA11-R2) Y=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) T=VALUE (RATA122) SFD=SPSPSPSPSPSPSPSPSPSPSPSPSPSPSPSPSPSPSP	
How the Kent 11 12 12 13 14 14 15 15 15 15 15 15	H=VALUE (RAI + NI + NE) X=VALUE (RAI + XI + X2) Y = VALUE (RAI + (I + Y2) DIR=WDIR (X + Y) SFD=MSFD(X + Y) IF (X + L + 998 +) 60 f0 202 INR=Y+22 SFD=9999, iultu 206 X=-X Y=-Y	
1=VALLE (NAT/11/12)	Y=VALUE (RAT, T1, Y2) I=VALUE (RAT, T1, T2) UIR=WDIR (X, Y) SFD=WSFD(X, Y) IF (X, LT, 998,) GDTO 202 IIR=9999, IUTO 206 X=-X Y=-Y	
FACLE (INTITUTE OF THE PACKET NEW PACKET FAC	1 1 1 1 1 1 1 1 1 1	R
SF (N. L. 1.99 8.) GOTO 202 N. C. L. 1.99 8.) GOTO 202 N. C. L. 1.99 8.) GOTO 202 N. C. L. 1.99 8.) GOTO 202 N. C. L. 1.99 9.) N. C. L. 1.99 9. N. C. L	SFD=MSFD(X,Y) IF (X,Lf,958,) G0f0 202 INTEXY99, SFD=9599, SMITU 206 X=-X Y=-Y	cs
IF (XLL: yybb.) build 202 SF0=9999. Garge 202 SF0=9999. SF(1.6E. 999.) [=9999. I = [1.73.15]. Ja=3 Ja=4 Ja=3 Ja=4 J	IN (X.L.), yyB.) bull 202 INEESY99, 5P0=9999, fulf0 206 X=-X Y=-Y	3
SFD=9999, (iu)TD 206 X = -X Y = -Y Y = -Y Y = -Y Y = -Y I	SPD=9999, tulto 206 X=-X Y=-Y	
######################################	Ka-X Ya-X Ya-Y	
X=-X X=-X Y=-Y I F (1.6E.999.) F=9999. I E (1.Lf.21).13=5 I F (1.Lf.20).13=4 I T (1.Lf.20).13=3 I F (1.Lf.20).13=3 I F (1.Lf.20).13=3 I F (1.Lf.20).13=3 I F (1.Lf.99).60 T0 218 I F (1.Lf.99).60 T0 217 NA=-6 I I F (1.Lf.99).60 T0 217 NA=-6 I F (1.Lf.99).60 T0 217 NA=-6 I F (1.Lf.99).60 T0 219 NA=-6 NA=-6 I F (1.Lf.99).60 T0 219 NA=-6 I F (1.Lf.99).60 T0 219 NA=-6 I F (1.Lf.99).60 T0 219 NA=-6 I F (1.Lf.99).60 T0 219		! !
F(f, 6E, 999.) f=999.		
JS=6 JS=6 JF (J.Lf.21) JS=5 IF (J.Lf.20.JS=7 IF (J.Lf.20.JS=3 IF (J.Lf.20.JS=3 IF (J.Lf.20.JS=2 IF (J.Lf.20.JS=2 IF (J.Lf.20.JS=2 IF (J.Lf.20.JS=2 IF (J.Lf.20.JS=2 IF (J.Lf.20.JS=2 IF (J.Lf.E.99) 60 TO 217 NA=6 IN = 1 - 100 GMUD 218 NA=5 GOTO 218 NA=5 GOTO 218 NA=6 SOTO 218 NA=6 SOTO 218 NA=6 SOTO 218 NA=6 SOTO 218 NA=6		1
F (J.Lf.31) JS=5	1	
If (J.LI.20.JS=4) If (J.LI.21) JS=3 If (J.LI.21) JS=3 If (J.LI.1.10.JS=1) If (I.L.I.1.1.10.JS=1) IF (I.C.E. 99) GOTO 218 II = (I.C.E. 99) GOTO 217 NA=6 II = If (I.C.E. 9) GOTO 219 NA=5 GOTO 218 NA=5 GOTO 218 NA=6 44.31 29 MAR, 1984 KGCNET NEDUCTION PASS #2 - MANGL		
TF (J.Lf. 16) JS=2 IF (J.Lf. 16) JS=1 IF (16 ff. 9000.) GGTO 218 IF (16 LE. 99) GGTO 217 NA=6 IN=If -100 IN=If -100 IN=If -100 IN=If -100 IN=If -100 IN=If (I) LE. 0) GGTO 219 NA=5 GGTO 218 9 NA=0 9 NA=0 1 4131 29 MAR, 1984 KGCNET NEDUCTION PASS #2 - MANGL	IF (J. L. 26) JS=4	:
IF (I.L. 99) 6010 218 IF (I.L. 99) 6010 217 NA-6 II = If -100 (MID 218 AA=5 6010 218 V hA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0 ** AA=0	[F(J,L', 16) JS=2	
11=0.5-1 11=0.5-1 11=17-100 11=17-100 11=17-100 11=17-100 11=17-100 11=17-100 11=17-100 11=17-100 11=17-100 11=17-100 12=17-100 13=17-100 14:31 29 MAR, 1984 KOCKET NEDUCTION FASS #2 - MANOL	rear of oans sent of a	
IF(If, LE, 99) 60 TO 217 AA=6	11=0.5-1	
11=17-100 6400 218 16(11.LE.0)6010 219 NA=5 6010 218 9 NA=0 1 4131 29 MAR, 1984 KGCNET NEOUCTION PASS #2 - MANOL	IF(If,LE,99)60f0 217	1
6010 218 A6=5 6010 218 9	1	
NA=5 GOTO 218 9 NA=0 : 4131 29 MAR, 1984 KOCNET NEDUCTION PASS #2 - MANDL	TE (1) JE (1)	
60F0 218 9 NA=0 : 4131 29 MAR, 1984 KOCKET KEDUCTION PASS #2 - MANOL	NA=5	
: 4:31 29 MAR, 1984 KOCKET KEDUCTION PASS #2 - MANDL	60 r0	
4:31 ZV MHKV LVG4 KULNET NEDUCITUM FH35 42 FINNOL	AND THE PROPERTY OF THE PROPER	
	4:31 ZY MHKY 1784 - MULNET NEDUCTION FHSS 42 - HANDL	1
		į

(4)

Studiet (Lich) Indicating Tangerian (1985) Studiet (1987) Studie			
A			!
and the state of t	CALL LEFTZFKO (SIG (JS), 2, 001 (h))		
	50 300 141,2 0.0 (b)=0.0 (b) =0.0 (b)		
Main Main	Telife		
######################################	NY . 9006 .) 6010 221		
	CALL LEFT ZERO (I) 2,001 (A))		•
######################################	00 510 F3102 (A) +60K		
00 (20) 11.3 00 (2	T+本日本		
10 (10 hr 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	Ed. 520 I=1,3		1
		,	
	TE (PL (Allah Canon) Fixed 55		
FF (ELL) (1.1. 4.1.) FE = 0.00005 FF (ELL) (1.1. 4.1.) FE = 0.00005 FF (ELL) (1.1. 4.1.) FE = 0.00005 FF (ELS, EL) (1.1. 4.1.) FE = 0.00005 FF (ES, EL) (1.1. 4.1.) FE = 0.00005 FF (ES, EL) (1.1. 4.1.) FE = 0.00005 FF (ES, EL) (1.1. 4.1.) FE = 0.00005 FF (ES, EL) (1.1. 4.1.) FE = 0.000005 FF (ES, EL) (1.1. 4.1.) FE = 0.0000005 FF (ED, ES) (1.1. 4.1.) FE = 0.0000000000000000000000000000000000	ហ		
F (15 E (16) TH = 17) TO TO TO TO TO F (15 E (16) TH = 17) TO TO TO F (15 E (16) TH = 17) TO TO F (15 E (16) TH = 17) TO TO F (15 E (16) TH = 17) TO F (15 E (16) TH = 17) TO F (15 E (16) TO TO F (16) TO F (16) TO TO F (16) TO TO F (16) TO F (YF (Fi.(.1) «L.(
TALL LEFZERR(CFS-2)-OUT(H)) TALL LEFZERR(CFS-2)-OUT(H)) THE TALL TRANSMIT (H) + 40N THE TALL TRANSMIT (H) + 40N THE TALL TRANSMIT (H) + 40N THE TALL TRANSMIT (H) + 40N THE TALL TRANSMIT (H) + 40N THE TALL TRANSMIT (H) + 40N THE TALL TERRITOR AND SPEEN THE TALL TERRITOR AND SPEEN THE	IF (JS, EQ, 6) IH=IH/10		
A			
### LEFTZERU(IP\$:2:001(#)) ##################################			
HUT (H) = (HIT) (H) + 60K HENT LEFTZERU(IH, 3,0UT (H)) 00 440 I = 1.43 00 140 I = 1.43 00 140 I = 1.43 00 140 I = 1.43 110 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 111 I = (HIR+5.) / 10. 112 I = (HIR+5.) / 10. 113 I = (HIR+5.) / 10. 114 I = (HIR+5.) / 10. 115 I = (HIR+5.) / 10. 116 I = (HIR+5.) / 10. 117 I = (HIR+5.) / 10. 118 I = (HIR+5.) / 10. 119 I = (HIR+5.) / 10. 110 I = (HIR+5.) / 10. 1	(:ALL LEFTZERO(IPS,2,0U1(M))		
######################################	(IU) (H) = (H) (H) +40N		
10 440 I=1.3 10 11 (H) +60K 10 11 (H) +60K 11 11 11 11 11 11 11 11 11 11 11 11 11	CAL LEFIZERO (TH-3-01) (M)		
1011 (H) = 0.17 (H) +60K 1011 (H) +60K 1100 = 0.11 (H) +5.7 (10. 1100 = 0.10 = 0.10 = 0. 1100 = 0.10 = 0.10 = 0. 1100 = 0.10 = 0.10 = 0. 1101 (H) = 0.10 = 0. 101 = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.10 = 0. 101 (H) = 0.00 =	IO 340 I=113		:
INDE (11R+5.)/10. 155=5PD±.5 IF (IDD. 61.998.0R.195.6F.998) 6010 233 IF (IDD. 61.998.0R.195.6F.998) 6010 233 IF (IDD. 61.998.0R.195.6F.0 INDIRECTION AND SPEED OO 350 I=1.2 OO 350 I=1.2 OO 360 I=1.3 OO 36	(i) (ii) (ii) + (ii) (ii) + (iii) (iii		
155=5FD+, 5 1F (IDD, ED, O) IDD=34 LINI, D) KECTION AND SPEED HIND D) KECTION AND SPEED HIND D) KECTION AND SPEED HIND D) KECTION AND SPEED HIND D) KECTION AND SPEED HIND D) SSO 1=1,2 HIND CON SECULT (H) SECOND (IND=(0.11R+5.)/16.		
	ISSESPILES		
### ##################################	IF (100.E0.0)100=36		•
(ALL LEFTZERO(IRIN-2-0011(H)) 00 350 1=1.2 00 350 1=1.2 441-1 (ALL LEFTZERU(ISS-4-011(H)) 00 360 L=1.3 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N 1-1-1 11 1 (H) +60N	LINE DIRECTION AND SPEED		
ALL LEF ZERU(IJIII ZIUUI (M) ZERU (IJIII ZIUI (M) ZERU (IJ ZERU (IJ ZERU (IJ ZERU (IJ ZERU (IJ ZERU (IJ ZERU (IJ ZERU Z		#	•
14.1 LETZERULISS. 3.011 (#)) 16.1 LETZERULISS. 3.011 (#)) 16.3 So L=1,3 10.3 (#) = (#) ? + 60K = #+ 1 10.2 4.3 29 MAR, 1984 ROCKET REDUCTION PASS #2 - MANUL	IN 350 1=1.2		
29 MAN, 1984 KOCKET REDUCTION PASS #2 - MANOL	(4) (H) = (H) (H) 7 (H) 1 (H)		
00 360 L=1,3 1(1) (h) +60K 1=141) (h) +60K 1=141) (h) +60K 1=141) (h) +60K 29 Mar, 1984	CALL LEFTZERU(153, J. Ditt (M.)		
1-11 (1) (1) +60h 1-10 24.8 29 Mar: 1984 ROCKET REDUCTION PASS #2 - MANDL	00 360 L=1,3		
29 MAR, 1984 FOCKET REDUCTION PASS #2 - MANUL			
29 MAR, 1984 KOCKET REDUCTION PASS #2 - MANDL	E010 243		•
	29 MAN. 1984 REFERENTIAN PASS 42 MANNA		
	TOWNER TO SECURE WEDGE TON LASS 45 LINNER		•

ROCS 3
ROCS 3
ROCS 3
ROCS 3
ROCS 3

: ວ	KODITAR TO PAD MUMBERS WITH LEAUING ZERUS	
; ;	SALBERGRETTER CHEFTZERG (NUMBERSTITATIONS)	
4 :	INTEGER ON PUT (5) PROTSURABILITY DEGINS	
1 = 0 .	GENERATES AN AKKAN ON SINGEF PEGETS FROM SULDESSIVE DIVISTONS. VALID FOR INTEGERS IN THE KANGE ZERO TO 2**(WORDSIZE).	
-		
- pgr	EUN) INDÉ RE FURN ENI	
!		:
DAGE 2		ROCS 3
:		
		,
1		-
İ		
		:
141 5:	9 29 MAR, 1984 KOCKET REDUCTION PASS #2 - LEFIZERO	

C.V.	-	,

- ध ।	CONVERTS OF CONTROL INTEGER TO FOSTILVE OR NEGATIVE CHARACTER
	TM F. B. C. CHIE (GEY) - MEDIT (GEY) UNITED COSE / T. F. J. F. M. F. L. F. M. F. M. F. M. F. F. F. B. F. F. M. F. F. M. F. F. M. F. F. M. F. F. M. F. F. M. F. F. M. F. F. M. F. F. F. F. F. F. F. F. F. F. F. F. F.
e e	1) (1, t f. 996) but 0 56
	N. I.K.Y.
ŞÇ	11: 17:0 KK = 1: 114:13
	10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20
	IF (J. NF. NA) GITO 166 K=CODE (J.)
	·
991	نے آ
90%	P(1 2.16 J. 2.
	15 (3.NE.KK) 6D (U. 21.) 1- N. Offe (J.) 1- T. L.
	KR TUKN CONTINUE END
2	

SUBMOUTINE PSTORCLEN

FUNCTION VALUE (K+A+B)
UALUE ENR (A-B)+K
1F (A+EB, 979-9-10K-B+EB, 999-9-9-00LUE = 999-91F (A+EB, 999-9-0K-B-EB, -999-9-00LUE = -999-9KETIRN
END

ROCS 3

ROCKE F REDUCTION PASS #2 - VALUE 14: 5:37 29 HAR, 1984 RUCKE

}	•	1	!!	
(!
1		1		
•				
ì				
,				
ì			•	
i		:		
			:	
1			: :	
1				
		; †	i	•
ļ	1		į	i
1		!	į	1
1		i		1
İ		1		
í				
1		i		
ì		İ		
٠		i		
;				1
!		1		,
			•	•
Ì			İ	,
}			ì	
			ì	<u>:</u> :
İ		i I	;	,
1	1			:
1	•	i	i	1
1		*	•	ł
į Į		!	ţ	i
1		!		4
1	1	}	(
	•	!		
1		;	1	,
İ	:	!		i
Ì		}	1	
1		; 1	0	1
			!	1
				i
				'
	PASS 2	1 ;		I
	R-243			

FUNCTOR WORK (KKFT)

15 (XX,NF,G,O) BOTH 100

17 (YX,1) (1,G,O) WIRE 360,0

18 (YX,1) (1,G,O) WIRE 360,0

19 (XX,1) (1,G,O) WIRE 360,0

E-416N (YY,XX) E-7,29,78

WUIN-270,0

19 (XX,G,G,O) WIR-90,0

IF (WORK,L,G,O) WIR-50,0

KLIUKN

FRIUKN

FRIUKN

717

1.14.1

NOUNCE KERUCTION PASS #2 - WITH

.9 MAK: 1984

14: 5:47

ROCS 3

FINCTION WSFU(K, P)
WSFU- (XRX+)RY)REG.5
(F (K, E4, 999, 9, UR, f, EQ, 999, 9) WSFU=999,
KE HIGH

ROCS 3

PASS 2 B-244

PAGE

KUCKET KEDUCTION PASS #2 - WSPD

14: 5:58 29 MAR, 1984

END

FILMED

3-86

DTIC